To,

The Principal Secretary
Raj Bhawan, Bihar, Patna

Sub: Regarding submission of proposed course structure and uniform syllabus of History for 3rd to 8th Semester of 4-Year undergraduate.

Ref: Letter No.- BSU(UGC)-02/2023-1457/GS (1) Dated 14.09.2023

Sir,

In Compliance with your Letter No.-BSU(UGC)-02/2023-1457/GS (1) Dated 14.09.2023 followed by above mentioned letter no., we are submitting the proposed course structure and syllabus of History for 3rd to 8th Semester of 4-Year undergraduate course system as per UGC regulations.

Yours faithfully

Dr. Radha Govind singh
Head, P.G. Dept. of History
VKSU, Ara

Prof. Rajeev Ranjan
Dept. of History
Patliputra University, Patna

Prof.(Dr.) Nripendra Kumar Shriastava
Professor & Head, Deptt. of History
Magadh University

Prof.(Dr.) Syed Raza
Professor & Head
Jai Prakash University, Chapra

Professor Amar Kant Singh
Prof. in Charge
Murarka College, Sultanganj
(Bhagalpur)

Dr. Ashutosh Kumar
Prof. in Charge
B. N. M. College, Barahia
(MUNG. UNIV.)

Dr.Ratnesh Aman
Associate Professor,
Nalanda College, Bihar Sharif
(Nalanda) PPU. PATNA

Prof.(Dr.) A.C. Jha
(Prof. Aditya Chandraikha)
Jai Prakash University, Chapra

Dr. Deepti Tiwari
Magadh Mahila College, Patna
Patna University

Dr. Amitabh Kumar
University Department of History, LNMU

Dr. Abhimanyu Prasad
G. D. College,
Begusarai(LNMU)

Proposed Course Structure for 4 Year

Bachelor of Arts

History

Under CBCS System

Syllabus for MJC & MIC of Semester III to VIII

Programme framed according to the National Education Policy

(NEP-2020)

effective from

Academic Session 2023-27

for

Universities of Bihar & Patna University

Course Structure (Semester-III)

Sl.No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1.	History of India: Earliest time to 550CE	MJC-3	5-1-0	5	100
2.	History of Europe:13th Century to1789	MJC-4	4-1-0	4	100
3.	History of India: Earliest time to 550CE	MIC-3	3-1-0	3	100
4.	To be selected from other faculties' MIC	MDC-3	3-1-0	3	100
5.	Disaster Risk Management	AEC - 3	2-1-0	2	100
6.	Skill Enhancement Course (To be Selected from Basket (given*)	SEC-3	3-1-0	3	100
				Total Credit-20	

Basket for Skill Enhancement Courses for Semester III (SEC – 3)
*Skill Enhancement Course (To be Selected from the Basket given below)

- Personal Financial Planning
- Visual Communication & Photography
- Statical Software Package
- Communication in Professional Life
- **रचनात्मक लेखन**
- **लेखन**

The **question paper pattern** for all courses shall consist of three parts –
Part A – Compulsory – consisting of objective/multiple choice type-
Each carrying two marks 10x2 = 20 marks
Part B – Short Answer Type – Four questions to be answered out of six questions-
Each carrying five marks 04x5 = 20 marks
Part C – Long Answer Type – Three questions to be answered out of five questions-
Each carrying five marks 03x10 – 30 marks
Total: 100 Marks **End Semester Examination: 70 Marks** **CIA: 30 Marks**

MJC-3
History of India; From Earliest Times to 550 C.E

Course Outcome:

- **CO1:** As a history student will learn about the historiographical trends, and interpretation of the historical sources of ancient India as well.
- **CO2:** They can acquire knowledge about the Vedic Period and the rise of Jainism and Buddhism culture in ancient times of India

MJC-3:	History of India; From Earliest Times to 550 C.E (5 Credits)	
Unit	**Topics to be covered**	**No. of Lectures**
I	**Sources, Historiography and Prehistoric India** a) Sources: Scientific Literature, Regional Languages and Religious Literature of Ancient Indian History up to 550 C.E. b) A survey of Prehistoric India: Palaeolithic, Mesolithic, Neolithic and Chalcolithic Cultures. c) The Indus – Saraswati Civilization, Debate on the relationship of Indus, Saraswati Civilization and Vedic Civilization. d) Significant features of Indus- Saraswati Civilization, its continuity, fall and survival of Saraswati Civilization	10
II	**Aryan Civilization** a) Origin of Aryans and Homeland in India, Myths of Aryan Invasion: Various theories, b) Vedic Cultures: Early Vedic and Post-Vedic Literature and Vedic Polity, Society and Economy c) Vedic Religion and Philosophy. d) Epic Literature and Culture: Problem of Dating and Historicity of the Epics.	10
III	**India from Sixth Century BCE to Mauryan Age** a) Sources b) India in the Sixth Century BCE Mahajanpada, Republic and Growth of Urban Centers, Rise of Magadhan Imperialism. c) Religious Systems in the 6th century BCE, Buddhism and Jainism. d) The Maurya Empire, Chandragupta Maurya, Mauryan administration, Ashok and Ashoka's Dhamma. Mauryan Society, Fall of Mauryan Empire. Greek Invasion and its Impact	10
IV	Post Mauryan Age a) Sources b) Reorganization of Republic in Post Mauryan Age. c) Indo-Greek, Saka, Kushan, Shunga, Kharvela, Satvahanas: Society and Culture, Art, Architecture and Coinage. d) Sangam Age: Sangam Literature, Society, Culture and Foreign Trade in Post Mauryan Age.	10
V	**Imperial Guptas** a) Sources b) Imperial Guptas and their Contemporaries. c) Gupta Administration d) Gupta Art, Architecture, Religion. Literature and Development of Science and Technology.	10
VI	**Sangam Age in South Indian History** a) Sources b) Cheras c) Pandyas d) Early Cholas	10
	Total	60

Suggested Readings:

1. *Agarwal, D.P: The Archaeology of India, 1985*
2. *Jayaswal, Vidula: Bhartiya Itihas Ke Adi Charna ki Rooprekha, Delhi, 1987*
3. *Majumdar, R.C. and Pusalkar, A.D (edited): The History and Culture of Indian People Vol. I, Vedic Age.*
4. *Majumdar, R.C. and Pusalkar, A.D (edited): The History and Culture of Indian People Vol. II: The Age of Imperial UNITy*
5. *Pandey, Rajbali: Prachin Bharat, Vishwavidyalya Prakashan, revised edition, Varanasi, 2010.*
6. *Raychaudhary, H.C: Political History of Ancient India, rev Edition, 1996 by B.N Mukherjee*
7. *Raychaudhary, H.C.: The History and Culture of Ancient India, Vol III: The Classical age*
8. *Sankalia, HD: Prehistory and Prohistory of India and Pakistan, Poona 1974*
9. *Sastri, K.A Nilakanta: A History of South India, from Prehistoric Times to the fall of Vijyanagar, Oxford University Press, 1955; Also, in Hindi Translation by Bihar Hindi Granth Academy.*
10. *Singh, Kripa Shankar: Rigveda, Harrappa Sabhyata and Sanskritic Nirantarta, Kitab Ghar publication, New Delhi, 2007*
11. *Singh, Upinder: A history of Ancient and Early Medieval India, from Stone Age to early Medieval India. 2008, Pearson, New Delhi.*
12. *Thapar, Romila: Early India from the Beginnings to 1300, London, 2002*
13. *Kumar, Ashutosh: Magadh ki Prachin Sanskriti Evam Parampara, Prachya Prakashan, Patna, 2017*

MJC-4

History of Europe from 13th Century to 1789

Course Outcome:

- To develop the understanding of Europe from a theocratic society to a modern nation-state system.
- To understand Renaissance and its influence on European Society, Economy, Polity, and Culture leading to the subsequent development of Nation-State and the emergence of new Ideologies culminating in the form of the French Revolution.

MJC-4	History of Europe from 13th Century to 1789	(4 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	**Beginning of Modern Europe** a) Decline of Feudalism and its Consequences b) Renaissance: Causes, Phases, Development of Art, Architecture and Literature, New discourse on Renaissance. c) Reformation movement in Europe and Counter Reformation, Religious Warfare: The Thirty Years War, d) Geographical Discoveries: Its impact on economy,.	12
II	**Absolutism in Europe** a) Growth of Absolute Monarchy in Spain and France. b) Absolute Monarchy in Britain and Struggle with Parliament c) Absolutism in Austria and Russia, Conflict in Germany d) Emergence of Nation-State in Europe.	12
III	**Economic Development in Europe** a) Feudal Economy and its impact b) Growth of Mercantilism in European Nations c) Development of Capitalism in Europe: Theory of Karl Marx d) Industrial Revolution: Causes, Growth and Impact	12
IV	**The age of Enlightenment and Scientific Revolution** a) Enlightenment in France in 18Th century b) Enlightenment in England and Growth of Democratic System c) Revolution in Science and Technology in Europe d) Scientific Development and its impact on society	12
V	**Revolutions in Europe** a) The Glorious Revolution in England: Causes and Nature b) Impact of Glorious Revolution on other European Countries c) French Revolution (1789): Causes, Phases and Impact d) French Revolution New Discourses	12
	Total	**60**

Suggested Readings:

1. Acton (1906): Lectures on Modern History, London, Macmillan and co. Ltd
2. Anderson, M.S.: Europe in the 18th Century
3. Andrews Stuart: Eighteenth century Europe
4. Butterfield: H. The Origins of Modern Europe
5. Cipola Carlo: M. before the Industrial Revolution, European Society and Economy 1000-1700
6. Elton G.R: Reformation in Europe
7. Fisher H.A.L: (1938), History of Europe (relevant portion only), London, Eyre and Spottiswoode
8. Hale J.R.: Renaissance Europe
9. Hayes C.J.H: (1936), A Cultural and Political History of Europe (Vol. I) (1500- 1830), London, Macmillan
10. Hazen C.D (1937): A History of Europe in Modern times, Henry holt and company
11. Hilton Rodney: Transition from Feudalism to Capitalism
12. Rai ,Koleshwar Adhunik Paschim ka Uday (Uttar Madhyakalin Europe 1453- 1783)
13. Kriedte Peter: Peasants, Landlords and merchant capitalist
14. Verma ,Lal Bahadur : Europe ka Itihas (Punarjagaran se Kranti Tak)
15. Miskimm Harry: The Economy of Later renaissance
16. Gupt ,Parthsarthi: Adhunik Paschim Ka Uday, Hindi Madhyam Karyanwayan Nideshalaya
17. Phukan Meenaxi: (2012) Rise of Modern West, Trinity Press Pvt. Ltd.
18. Rice F.: The Foundations of Early Modern Europe
19. Scamell, V.: The First Imperial age: European overseas Expansion, 1475-1715
20. Schevil: (1898) History of Modern Europe (Hindi or English), Charles Scribner's sons
21. Singh Heeralal And Ram Vriksh Singh: 2011Adhunik Europe ka Itihas
22. The Cambridge: Economic History of Europe Vol I to Iv
23. Inderpal Vimal: Adhunik Europe (1453-1789), Agra, Laxmi Narayan Agrawal

MIC-3
History of India; From Earliest Times to 550 C.E

Course Outcome:

- As a history student he/she will learn about the historiographical trends, and interpretation of the historical sources of Ancient India as well.
- They can acquire knowledge about the Vedic Period and the rise of Jainism and Buddhism, Cultural development in Ancient India

MIC-3: History of India; From Earliest Times to 550 C.E		**(3 Credits)**
Unit	**Topics to be covered**	**No. of Lectures**
I	**Sources, Historiography and Prehistoric India** a) Sources of Ancient Indian History up to 550 C.E. b) A survey of Prehistoric India: Palaeolithic, Mesolithic, Neolithic and Chalcolithic Cultures. c) The Indus – Saraswati Civilization, A debate for resurgence. d) Significant features of Indus- Saraswati Civilization, its continuity and decline	6
II	**Aryan Civilization** **a)** Origin of Aryans and their Homeland in India. b) Vedic Age: Society and Economy c) Vedic Religion and Philosophy. d) Epic literature (Ramayan and Mahabharata).	6
III	**India from Sixth Century BCE to Mauryan Age** a) Mahajanapada b) Republic in Ancient India. c) Magadhan Imperialism d) Buddhism and Jainism.	6
IV	Post Mauryan Age a) The Maurya Empire, Chandragupta Maurya, Ashoka and Ashoka's Dhamma. Fall of Mauryan Empire. b) Indo-Greek, Saka, Kushan, Shunga, Kharvela, Satvahanas: Society and Culture, Art, Architecture and Coinage. c) Sangam Age: Sangam Literature, Society and Culture	6
V	**Imperial Guptas** a) Imperial Guptas and their Contemporaries. b) Gupta Administration c) Gupta Art, Architecture, Religion. Literature and Development of Science and Technology.	3
VI	**Sangam Age in South Indian History** a) Cheras b) Pandyas c) Early Cholas	3
	Total	**30**

Suggested Readings:

1. Agarwal, D.P: The Archaeology of India, 1985
2. Jayaswal, Vidula: Bhartiya Itihas Ke Adi Charna ki Rooprekha, Delhi, 1987
3. Majumdar, R.C. and Pusalkar, A.D (edited): The History and Culture of Indian People Vol. I, Vedic Age.
4. Majumdar, R.C. and Pusalkar, A.D (edited): The History and Culture of Indian People Vol. II: The Age of Imperial UNITy
5. Pandey, Rajbali: Prachin Bharat, Vishwavidyalya Prakashan, revised edition, Varanasi, 2010.
6. Raychaudhary, H.C: Political History of Ancient India, rev Edition, 1996 by B.N Mukherjee
7. Raychaudhary, H.C.: The History and Culture of Ancient India, Vol III: The Classical age
8. Sankalia, HD: Prehistory and Prohistory of India and Pakistan, Poona 1974
9. Sastri, K.A Nilakanta: A History of South India, from Prehistoric Times to the fall of Vijyanagar, Oxford University Press, 1955; Also, in Hindi Translation by Bihar Hindi Granth Academy.
10. Singh, Kripa Shankar: Rigveda, Harrappa Sabhyata and Sanskritic Nirantarta, Kitab Ghar publication, New Delhi, 2007
11. Singh, Upinder: A history of Ancient and Early Medieval India, from Stone Age to early Medieval India. 2008, Pearson, New Delhi.
12. Thapar, Romila: Early India from the Beginnings to 1300, London, 2002

Course Structure (Semester IV)

Sl.No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1.	History of India: 550 CE- 1200 C.E.	MJC-5	5-1-0	5	100
2.	History of Europe: 1789 C.E.- 1919 C.E.	MJC-6	5-1-0	5	100
3.	History of India: 1200 C.E.-1700 C.E.	MJC-7	5-1-0	5	100
4.	History of Europe:13th Century to1789	MIC-4	3-1-0	3	100
5.	NCC/NSS/NGOs/Social Service/Scout and Guide/Sports	AEC-4	2-1-0	2	100
				Total Credit-20	
Exit Option to students with U.G. Diploma. After completing I, II, III & IV Semester earning full credits students will be awarded UG Diploma only if he or she takes one Vocational Course of 4 credit (During Summer Vacation). This Course will not be included in SGPA & CGPA Calculation.					

The **question paper pattern** for all courses shall consist of three parts –
Part A – Compulsory – consisting of objective/multiple choice type-
Each carrying two marks 10x2 = 20 marks
Part B – Short Answer Type – Four questions to be answered out of six questions-
Each carrying five marks 04x5 = 20 marks
Part C – Long Answer Type – Three questions to be answered out of five questions-
Each carrying five marks 03x10 = 30 marks
Total: 100 Marks **End Semester Examination: 70 Marks** **CIA: 30 Marks**

MJC-5

History of India; From 550 C.E. to 1200 C.E

Course Outcome:

- Students will learn and analyze the transition from early historic era to the early medieval era.
- They'll be able to delineate changes in the realm of Polity and Culture; Puranic Religion; the growth of Vernacular Languages and newer forms of Art and Architecture.

MJC-5 History of India; From 550 C.E. to 1200 C.E. (5 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
I	Emergence of New Powers and Age of Decentralization a) Decline of Gupta Power b) Huna Invasion and its impact c) Dynasty of Pushyabhuti and Kanyakubja with reference to Harsha and contemporary State, Society and Culture. d) Origin of Rajput: Various theories.	12
II	Decentralization and Emergence of Regional Power a) Rajputs: Origin, Emergence and Decline b) Tripartite Struggle c) Establishment of Muslim Rule in North India d) Muslim Rule in Delhi and the Impact of Muslim Rule on India	12
III	Regional Powers of South and Deccan a) Chalukyas of Vatapi; Origin history, Art and Architecture. b) Rashtrakutas of Manyakhet: History, Expansionist Policy, Religion, Art and Architecture. c) Cholas of Kanchi: History, Administration, Art and Architecture. d) Other Regional Powers: Pallava, Pandya, Chera, Kakatiya, Ganga, Kadamba and Sinhal (Sri Lanka)	12
IV	Decline of Rajputs a) North Western India: Dynasties of Kashmir; Sindh; Arab Invasion; Hindu Shahi and Nepal and their political and cultural achievements. b) Central India: Maukharies, Pratihars, Gahadwals, Chahman, Chandela, Kalachuri, Parmara and their Political and Cultural Achievements. c) South Western India: Chalukya and Solanki and their Political and Cultural Achievements. d) North Eastern India: Palas, Senas of Bengal; Dynasties of Kalinga and Other Region; Dynasty of Kamroop and their Political and Cultural Achievements.	12
V	Culture of Early-Medieval India a) Disintegration of Political Power b) Society and Religion in Early-Medieval India c) Fine Arts in Early-Medieval India: Architecture, Sculpture, Paintings. d) Emergence and Spread of the Bhakti movement in India.	12
	Total	**60**

Suggested Readings:

1. Majumdar R.C and Pusalkar A.D (edited): The History of Indian People, vol. V, The Struggle for Empire
2. Majumdar R.C. and Pusalkar A.D (edited): The History of Indian People, Vol. IV, The Age Imperial Kanauj
3. Majumdar, A.K.: Bhakti Renaissance, Bhartiya Vidyabhawan, Calcutta.
4. Majumdar, R.C. and Altekar, A.S Vakataka: Gupta Age, Motilal Banarasi Das, 2007.
5. Pande, Rekha: Religion movement in Medieval India, Gyanbook, New Delhi.
6. Pathak Vishudhanand: Uttar Bharat ka Rajnaitik Itihas (600-1200 A.D.), Hindi Sansthan Uttar Pradesh,1973
7. Ray Chaudhary, H.C.: Political History of Ancient India.
8. Sastri, K.A. Nilkanta: a History of South India, from Prehistoric times to the fall of Vijaynagar, Oxford University Press, 1955, also, in Hindi translation by Bihar Hindi Granth Academy.
9. Sastri, K.A. Nilkanta: Studies in Chola History and Administration, University of Madras, 1932.
10. Shastri, K.A Nilkanta: History of South India: from Prehistoric times to the Fall of Vijaynagar, IV Edition, 1975
11. Singh, Upinder: A History of Ancient and Early Medieval India, from Stone Age to Early Medieval India, a Pearson pub., New Delhi, 2008.
12. Srivastva, B: Dakshin Bharat ka Itihas, Chaukhambha Prakashan, Varanasi, 2010.
13. Tripathi, R.S: History of Kannauj to the Moselm conquest, 1986.
14. Vaidya, C.V.: Early History of Rajputs (750 to 1000 A.D), Reprint, Gyanbooks, New Delhi, 2019.
15. Vaidya, C.V: History of Medieval Hindu India, Reprint, Gyanbooks, New Delhi, 2018.

MJC-6

History of Europe- 1789-1919

Course Outcome:

- The students will be able to analyze the historical developments in Europe between 1789-1919. As it focuses on the Democratic & Socialist foundations of Modern Europe.
- They will be able to situate historical developments of Socialist upsurge & the economic forces of the wars, other Ideological Shifts.

MJC-6 History of Europe- 1789-1919		(5 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	Rise of Nationalism in Europe a) Rise of Napoleon and spread of French Imperialism b) Reforms of Napoleon as First Consul c) Downfall of Napoleon d) Age of Reactionism, Congress of Vienna and its Significance e) Revolutions of 1830 and 1848: Causes and Consequences	12
II	Rise of New Nations a) Unification of Germany under Bismarck. b) Unification of Italy: Role of Cavour, Mazzini and Garibaldi c) Russia & Problems of Eastern Nationalities.	12
III	Capitalist Industrialization & Socio-Economic Transformation a) Process of Capitalist development in Industry & Agriculture in Britain, France, Germany and Russia. b) New Social Classes: Bourgeoisie, Proletariat, and Peasantry c) Rise of Socialism and Growth of New Capitalism d) Imperialism and its impact	12
IV	International Relations: New Era & the Concept of Balance of Power. a) Congress of Berlin, Creation of Alliance under Bismarck b) The decline of Ottoman Empire and emergence of Modern Turkey under Mustafa Kamal Pasha c) Third French Republic: its Problems and Foreign policy d) Communism in Russia: The Bolshevik Revolution	12
V	Road to First World War and New World Order a) Circumstances leading to the First World War b) Paris Peace Conference and its Significance c) Intervention of USA: 14 points of Woodrow Wilson	12
	Total	**60**

Suggested Readings:

1. Aldrich, Robert Greater France: A history of French Overseas Expansion
2. Anderson, M.S The Ascendancy of Europe: 1815-1914 (3rd Ed. 2003)
3. Bartlett. C.J.: Peace, War and the European Powers, 1814-1914 (1996) brief overview 216pp
4. Blanning, T.C .W Ed.: The Nineteenth Century: Europe 1789-1914 (Short Oxford History of Europe) (2000)
5. Bridge, F.R & Roger Bullen.: The Great Powers and the European States System 1814-1914, 2nd Ed. (2005)
6. Brunn, Geoffery, :Europe and the French Imperium, 1799-1814 (1938)
7. Bury. J.P.T Ed.:. The new Cambridge Modern History: Vol. 10: The Zenith of European Power 1830-70 (1964)
8. Cameron, Rondo: France and the Economics Development of Europe, 1800-1914: Conquest of Peace and Seeds of War (1961), a wide –ranging economic and business History.
9. Crawley, C.W Ed.: The New Cambridge Modern History, Vol. 14: Altas (1972)
10. Evans, Richard :j The Pursuit of power Europe 1815-1914 (2015)
11. Gildea, Robert : Barricades and Boders: Europe 1800-1914 (3rd Ed. 2003)
12. Gooch, G.P: History of modern Europe 1878-1919 (1923)
13. Grab, Alexander: Napolean and the Transformation of Europe (2003)
14. Grant & Temperley: Europe in the Ninteenth and twentieth century's.
15. Hayes C.J.H.: A political and Cultural History of Europe, 1830-1839.
16. Herring, George C.: Years of Peril and Ambition U.S foreign Relations. 1776-1921 (2017)
17. Hinsley F.H Ed: the New Cambridge modern History Vol. 11 Material Progress and World Wide Problems 1870-1898 (1979)
18. Kennedy, Paul: The Rise and Fall of the Great powers Economic Change and Military Conflict from 1500-2000 (1987), stress on Economic and Military factors
19. Ketelbey, C.D.M : A history of Modern Times (English or Hindi)
20. Langer, William :European Alliances and Alignments 1870-1890 (1950) Advanced history.
21. Langer, William : The Diplomacy of Imperialism 1890-1902 (1950) Advanced History
22. Lipson: Europe in the Nineteenth and Twentieth centuries
23. Mason, David S: A Concise History of Modern Europe, Liberty, Equality, Solidarity (2011). Since 1700
24. Merriman, John and J.M Winter Eds.: Europe 1789-1914. Encyclopaedia of the Age of Industry and Empire (5 vol. 2005)
25. Mowat, RB: A History of European Diplomacy 1815-1914 (1922)
26. New Cambridge modern History (13 vol 1957-79), old but thorough coverage, mostly of Europe, strong on Diplomacy
27. Osterhammel, Jurgen: The transformation of the world: A Global History of the nineteenth Century (2015)
28. Porter, Andrew Ed.: The Oxford History of the British Empire Volume III: The

Nineteenth century (2001)
29. Saimi Hannu: 19th Century Europe A Cultural History (2008)
30. Sontag, Raymond European Diplomatic history: 1871-1932 (1933) Basic Summary 425pp
31. Steinberg, Jonathan: Bismarck A Life (2011)
32. Taylor AJP: The Struggle for Mastery in Europe 1848-1918 (1954) 638 pp- advanced history and analysis of major diplomacy
33. Wesseling, H.L The European colonial Empire 1815-1919 (2015)
34. Bhatnagar and Gupt: Adhunik Europe ka Itihas (Bhag-2)
35. Lal ,K.S Lal: Adhunik Europe ka Itihas (Bhag-2)
36. Verma ,Lal Bahadur: Europe ka Itihas (Bhag-2), New Delhi Prakash Sansthan
37. Gupta ,Parthsarthi: Adhunik Paschim ka Uday, Hindi Madhyam Karyanvayan Nideshalaya (1983)
38. Gupta ,Parthsarthi: Europe ka Itihas, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi
39. Joll,James: Europe 1870 se, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi
40. Gupta ,Parthsarthi: Britain ka Itihas, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi
41. Saxena ,Banarasi Prasad: America ka Itihas, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi

MJC-7

History of India (1200- 1707)

Course Outcome:

- Students will be able to identify the major Political developments in the History of India during the period between the twelfth and the seventeenth century.
- Outline the Changes and Continuities in the field of Culture, especially with regard to Art, Architecture, the Bhakti Movement, and the Sufi movement.
- Delineate the development of trade and urban complexes during this period.

MJC-7 History of India (1200-1707)		5 Credits
Unit	**Topics to be covered**	**No. of Lectures**
I	**Medieval India** a) Important sources of Medieval Indian History b) Early Turks, Khalji revolution, and Tughlaqs, Invasion of Timur c) Ruling Dynasties of Assam, Rajput States (Mewar and Marwar), Orissa, Kashmir d) Vijayanagara Empire	12
II	**Afghans and Mughals** a) Afghan Rule: Lodis and Surs b) India on the Eve of Babur's Invasion c) Establishment and Re-establishment of Mughal Rule, Hemu Vikramaditya, Rana Pratap, Rani Durgavati, Chand Bibi d) Expansion of the Mughal Empire, Administration: Theory of State, Land Revenue System, Jagirdari and Mansabdari system	12
III	**Aurangzeb, Shivaji and Other Powers** a) Aurangzeb, Extent and Disintegration of Mughal Empire b) Resistance of Mewar and Marwar c) Rise of Marathas under Shivaji, Maratha Administration, Concept of Hindu Pad Padshahi d) Resistance of Sikhs, Jats,Satnamis and Bundelas	12
IV	**Society and Economy** a) Hindu Society: Caste and Occupational groups, Education, Customs and Traditions b) Muslim Society: Divisions and Occupational groups; Lifestyle, Education, Customs and Tradition. c) Condition of Peasants, Artisans and Women d) Condition of Agriculture and Industry. e) Development of Trade and Commerce.	12
V	**Religion and Culture** a) Bhakti movement b) Sufism, Sikhism and Other Sects in South India, Bengal and Kashmir c) Development of Language and Literature d) Development of Science and Technology, Architecture, Painting and Classical Music.	12
	Total	**60**

Suggested Readings

1. Srivastava A.L: Delhi Sultanate (English or Hindi Version), Shiv Lal Agarwal & Co., Agra, Reprint, 2017
2. Srivastava A.L: The Mughal Empire (English or Hindi Version), Shiv Lal Agarwal & Co., Agra, Reprint, 2017
3. Yadav B.N.S : Society and Culture in North India in the 12th century. Raka Prakashan, Prayagraj, 2012
4. Majumdar B.P.: Socio-Economic History of Northern India, Firma K. L. Mukhopadhyay (1960)
5. Purandare Babasaheb: Raja Shivchattrapati, Vol. I & II, Purandare Prakashan, 2020
6. . Ojha: G.H. Rajputane Ka Itihas,(Hindi) Vaidik Yantralaya, Ajmer, 1927
7. Sharma G.N: Mewar and the Mughal Emperors, Shiv Lal Agarwal, Agra, 1962
8. Kulke Herman (ed.) The State in India (1000-1700), OUP, 1995
9. Prasad Ishwari : Medieval India (English or Hindi version) 4th ed., Digitized 2006
10. Sarkar J.N: Life and Times of Shivaji, Orient Blackswan Pvt. Ltd., New Delhi, 2010
11. Shastri K.A. Nilkantha: A History of South India, Oxfortd, 1997
12. Chitnis K.N: Socio- Economic History of Medieval India, Atlantic Publishers, 2018
13. Majumdar, Raychaudhary & Dutta : An Advanced History of India, Laxmi Publications, 2016
14. Habib Mohammad and K.A. Nizami, ed. : Comprehensive History of India, Vol. V, The Delhi Sultanate, PPH, 1992
15. Acharya N.N: The History of Medieval Assam from 13th to 17th centuries, Omsons Publications, 2003
16. .Majumdar R.C & others (ed.): The History and Culture of the Indian People Vol. 6, the Delhi Sultanate, Bhartiya Vidya Bhawan, 2006
17. Majumdar R.C & others (ed.): The history and Culture of the Indian People Vol. 7, the Mughal Empire, Bhartiya Vidya Bhawan, 2006
18. Bhardwaj R.K Hemu: Life and times of Hemchandra Vikramaditya, Hope India Publications, Gurgaon, 2004
19. Tripathi R.P : Rise and fall of the Mughal Empire (English or Hindi), Surjeet Publications, 2012
20. . Sharma S.R. : The Crescent in India: A Study in Medieval History, Bhartiya Kala Prakashan, 2005
21. Prasad Ishwari: A Short History of Muslim Rule in India, Surjeet Publications, 2018
22. Digby,Simon, War Horses and Elephants in the Delhi Sultanate. OUP, 1971
23. Bhargava V.S: Marwar and the Mughal Emperors, Munshiram Manoharlal, 1966
24. Pande:Rekha: Religious Movements in Medieval India, Gyan Publishing House, 2005
25. Chandra Satish :Uttar Mughal Kalin Bharat Ka Itihas, Minakshi Prakaskan, 1974
26. Shrivastava, Nripendra Kumar Process of Urbanizization of Bihar during the Medieval Period, Janaki Publication, Patna, 2014.
27. Mittal Dr. Satish Chandra :Muslim sasaka tatha Bhartiya samaj, Suruchi Prakashan, 2014
28. Mittal Dr. SatishChandr:Bharat ka Sankhipt Itihasa, Suruchi Prakashan, 2014
29. Ahmad Imtiaz Madhyakalin Bharat : Ek Sarvekshan
30. Jha,A.C.Jha, Dilli Sultanate: Ek Sarvekshan

MIC-4

History of Europe from 13th Century to 1789

Course Outcome:

- To develop the understanding of transition of Europe from a theocratic society to a modern nation-state system.
- Renaissance and its influence on European Society, Economy, Polity, and Culture leading to the subsequent development of Nation-State and the emergence of new Ideologies culminating in the form of the French Revolution.

MIC-4 History of Europe from 13th Century to 1789 (3 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
I	**Beginning of Modern Europe** a) Decline of Feudalism and its consequences b) Renaissance: Causes, Phases, Development of Art, Architecture and Literature, New discourse on Renaissance.	6
II	**Absolutism in Europe** a) Growth of Absolute Monarchy in Spain and France. b) Absolute Monarchy in Britain and Struggle with Parliament	6
III	**Economic Development in Europe** a) Feudal Economy and its impact b) Growth of Mercantilism in European Nations	6
IV	**The age of Enlightenment and Scientific Revolution** a) Enlightenment in France in 18Th century b) Enlightenment in England and Growth of democratic System	6
V	**Revolutions in Europe** a) The Glorious Revolution in England: Causes and Nature b) Impact of Glorious Revolution on other European Countries	6
	Total	**30**

Suggested Readings:

1. Acton (1906): Lectures on Modern History, London, Macmillan and co. Ltd
2. Anderson, M.S.: Europe in the 18th Century
3. Andrews Stuart: Eighteenth century Europe
4. Butterfield: H. The Origins of Modern Europe
5. Cipola Carlo: M. before the Industrial Revolution, European Society and Economy 1000-1700
6. Elton G.R: Reformation in Europe
7. Fisher H.A.L: (1938), History of Europe (relevant portion only), London, Eyre and Spottiswoode
8. Hale J.R.: Renaissance Europe
9. Hayes C.J.H: (1936), A Cultural and Political History of Europe (Vol. I) (1500-1830), London, Macmillan
10. Hazen C.D (1937): A History of Europe in Modern times, Henry holt and company
11. Hilton Rodney: Transition from Feudalism to Capitalism
12. Rai, Koleshwari: Pashchim ka Uday (Uttar Madhyakalin Europe) (1453- 1783)
13. Kriedte Peter: Peasants, Landlords and merchant capitalist
14. Verma Lal Bahadur: Europe ka Itihas (Punarjarran se kranti tak), New Delhi
15. Miskimm Harry: The Economy of Later renaissance
16. Gupt ,Parthsarthi: Adhunik Paschim ka uday, Hindi Madhyam , Karyanvan Nideshalaya, New Delhi
17. Phukan Meenaxi: (2012) Rise of Modern West, Trinity Press Pvt. Ltd.
18. Rice F.: The Foundations of Early Modern Europe
19. Scamell, V.: The First Imperial age: European overseas Expansion, 1475-1715
20. Schevil: (1898) History of Modern Europe (Hindi or English), Charles Scribner's sons
21. Singh Heeralal And Ram Vriksh Singh: 2011, Adhunik Europe ka Itihas
22. The Cambridge: Economic History of Europe Vol I to Iv
23. Inderpal Vimal: Adhunik Europe (1453-1789)

Course Structure (Semester-V)

Sl.No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1.	History of Modern World:1919-1945	MJC-8	5-1-0	5	100
2.	History of India:1707-1857	MJC-9	5-1-0	5	100
3.	History of India: 550CE-1200 CE	MIC-5	3-1-0	3	100
4.	History of Europe:1789-1919	MIC-6	3-1-0	3	100
5.	Internship	INT	-	4	100
		Total Credit-20			

The **question paper pattern** for all courses shall consist of three parts –
Part A – Compulsory – consisting of objective/multiple choice type-
Each carrying two marks 10x2 = 20 marks
Part B – Short Answer Type – Four questions to be answered out of six questions-
Each carrying five marks 04x5 = 20 marks
Part C – Long Answer Type – Three questions to be answered out of five questions-
Each carrying five marks 03x10 = 30 marks
Total: 100 Marks **End Semester Examination: 70 Marks** **CIA: 30 Marks**

MJC-8
History of Modern World (1919- 1945)

Course Outcome:

- The students will have an understanding of an era of shifting history from Euro centric to World.
- They will able to comprehend the turbulent times when totalitarianism rose as an alternative to Democratic and Liberal ideal and also the growing desire for peace through formation of organizations such as United Nations.

MJC-8	History of Modern World (1919-1945)	(5 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	1919 A New World Order a) Formation of the League of Nations: Organizations, Achievements & Failures b) Formation of ICJ & ILO c) New Imperialism: Mandate System d) Democracies between the wars	12
II	Rise of Totalitarianism a) Failure of Weimar Republic & Rise of Nazism in Germany b) Factors leading to the Growth of Fascism in Italy and the Concept of Corporate state c) Rise of Totalitarianism in Russia & Stalin d) Rise of Militarism in Japan	14
III	Anti-Imperialist Movements between the Great Wars a) Arab Nationalism b) Nationalist Movement in China with reference to The role of Dr.Sun Yat-Sen c) Anti-Imperialist Movement in Indo-China d) Anti-Imperialist Movement in Egypt	12
IV	Challenges to Capitalism a) Rise and Role of trusts in USA b) The progressive Movement and Foreign Policy of USA c) The Great Economic Depression: 1929 d) Reconstruction and New Deal Policy of F.D Roosevelt	12
V	Quest for security and road to Second World War a) French quest for security: Locarno Pact-1925 b) Causes and Consequences of Second World War c) U.N.O its Organization and Achievements d) Cold War and Emergence of New Bi-Polar world.	10
	Total	**60**

Suggested Readings

1. Barzun Jacques from Dawn to Decandence 500 years of western Cultural life : 1500- present New York, Harper Collins 2001
2. Benns F. Lee : Europe Since 1914
3. Car, E.H (1948) International Relations between two World Wars (1919-1939), Delhi, Macmillian & Co.
4. Carsten. F.L (1982) : The Rise of Fascism University of California Press
5. Cayley, E.S (1856) The European revolutions of 1848, London Smith Elder & Co. Vol I and II
6. Contemporary History of the World by Edwin Augustus Grosvenor
7. Crawley C.W (1965) The new Cambridge modern History Volume 9. War & Peace in an age of upheaval. 1793-1830. Cambridge University Press.
8. Dhar, S.N (1967) : International Relations and World Politics since 1919, Bombay, Asia Publish House
9. Doenecke Justus D. Stoler Mark A (2005). Debating Franklin D Roosevelt's Foreign
10. Rowman & Little field, Policies. 1933-1945
11. Dunan Marcel Larousse: Encyclopaedia of Modern History from 1500 to the Present day, New York Harper & Row, 1964.
12. Duruy V & Grosvenor E.A (1894) History of modern times: From the fall of Constantipole to the French Revolution, New York H Holt and Company
13. FP Walters: A History of the League of Nations (oxford 1965)
14. Gaddis John Lewis (1972) The United States and the Origins of the Cold War, 1941- 1947 Columbia University Press
15. Grosvenor, Edwin A Contemporary History of the World New York and Boston T.Y Crowell & Co. 1899
16. Henry Kitchell Webster : Early European History
17. Jules Michelet, Mary Charlotte, Mair Simpson : A summary of Modern history
18. Joll James: Europe Since 1870

MJC-9
History of India (1707-1857)

Course Outcome:

- The students will be able to trace the British colonial expansion in the political contexts of eighteenth-century India.
- They will learn about the changes in society, politics, religion and economy during this period.
- They'll also acquire knowledge about the freedom struggle.

MJC-9	History of India (1707-1857)	(5 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	Downfall of Mughals and Maratha Power a) Disintegration of Mughal Power: Main Political Trends b) Expansion of Maratha Kingdom under Peshwas and Maratha confederacy c) Administration and Socio- Economic condition under Marathas d) Causes of the Downfall of Maratha power- Third Battle of Panipat	12
II	Rise of Indian States a) Rise of Punjab under Ranjit Singh: Conquests and Administration b) Rise of Bengal and Awadh in the 18th Century c) Rise of Hyderabad and Mysore in the 18th Century d) Political conditions in South India: Cochin & Travancore	12
III	Expansion of East India Company's Rule a) Arrival of European companies: Rivalry for Control b) Ascendancy of English East India Company: Battle of Buxar and Plassey; Their effects c) Territorial Expansion of East India Company1765- 1813 (From ring fence to Subordinate isolation) d) Territorial Expansion of East India Company1813-1856	12
IV	Administration of East India Company a) Economic Policies- Agriculture, Trade, Banking, Land revenue b) Administrative Apparatus under East India Company with special reference to Education, Communication and judicial policy c) Theories of Cultural Ascendency: Utilitarianism, Evangelicals and White Men Burden Theory d) Response of Indian Society and Socio-Religious Reform Movements	12
V	Resistance to Colonial Power a) Peasant Revolts in the 19th Century: Deccan, Indigo and Pabna b) Tribal Revolts: Bhil, Kol, Santhal, Gond and others c) First War of Independence: Causes, Nature d) Main Leaders and People's Resistance in 1857 and Geographical Areas	12
	Total	**60**

Suggested Readings:

1. Banerjee A.C : The New History of modern India (1707-1947)
2. Basu B.D. : Rise and Fall of Christian Power in India, Vol. II
3. Grover B.R : A new look on Modern Indian History
4. Bayly C.A : An illustrated History of Modern India 1600-1947
5. Chabra, G.S. : Advance History of Modern India
6. Kumar D. : The Cambridge Economic History of India
7. Desai A.R: India's Path of Development
8. Desai, A.R. : Social Background of Indian Nationalism
9. Dodwell : A Sketch of the History of India
10. Dutta,K.K : Social History of Modern India
11. Freedenberg, R.E : Land Control and Social Structure in India
12. Prasad I.& Subedar: History of Modern India (English or Hindi)
13. Farquhar J.N : Modern Relegious Movements in India
14. Sarkar J.N. : Mughal Economy
15. Veluthat Kesvan : Political Structure of Early Medieval South India
16. Lal, Sunder : Bharat me Angreji Raj
17. Ali M. Athar : Mughal Nobility under Aurangzeb
18. Mishra, B.B : Administrative History of modern India
19. Karashima Nobora : South Indian History and Society
20. Marshall P.J.: The Eighteenth century in Indian History
21. Majumdar R.C : British Paramountacy and Indian Renaissance (Part I)
22. Dutt R.P : India Today
23. Tripathi R.P. : The Rise and Fall of Mughal Empire
24. Muir Ramsay: The making of British India
25. Sarkar Sumit : Modern India
26. Sarkar Sumit: Adhunik Bharat
27. Sen Sunil K. : Agrarian Relations in India, 1793-1947
28. Singh, G.N : Constitutional Development of India
29. Stein Burton : The Making of Agrarian Policy in british India, 1770-1900
30. Gordon Stewart: The Marathas 1600-1818
31. Sarkar Sumit: Modern India 1885-1947
32. Metealf Thomas: Ideologies of the Raj
33. Thompson & Garret : Rise and Fulfillment of British Rule in India

MIC-5

History of India; From 550 C.E. to 1200 C.E

Course Outcome:

- Students will learn and analyze the transition from historic centuries to the early medieval.
- They'll be able to delineate changes in the realm of Polity and Culture; Puranic Religion; the growth of Vernacular Languages and newer forms of Art and Architecture.

MIC-5	History of India; From 550 C.E. to 1200 C. E	(3 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	Emergence of New Powers and Age of Decentralization a) Huna Invasion and its impact b) Harsha the Last Hindu Ruler of Ancient India. c) Origin of Rajput: Various theories.	8
II	Decentralization and Emergence of Regional Power a) Emergence of Rajput States b) Tripartite Struggle c) Establishment of Muslim Rule in Delhi and the Impact of Muslim Rule on India	6
III	Regional Powers of South and Deccan a) Chalukyas of Vatapi : A brief History. b) Rashtrakutas of Manyakhete : A brief History. c) Cholas of Kanchi: A brief History. d) Other Religional Powers: Pallava, Pandya, Chera: A brief History.	6
IV	Decline of Rajputs a) North Western India: Dynasties of Kashmir; Sindh; Arab Invasion; b) Central India: Pratihars, Gahadwals, Chahman, Chandelari, Parmara and their Political and cultural achievements. c) South Western India: Chalukya and their political and cultural achievements. d) North Eastern India: Palas, Senas of Bengal;	6
V	Culture of Early-Medieval India a) Society and Religion in Early-Medieval India b) Fine Arts in Early-Medieval India: Architecture, Sculpture, Paintings. c) Emergence and Spread of the Bhakti movement in India.	4
	Total	**30**

Suggested Readings:

1. Majumdar R.C and Pusalkar A.D (edited): The History of Indian People, vol. V, The Struggle for Empire
2. Majumdar R.C. and Pusalkar A.D (edited): The History of Indian People, Vol. IV, The Age Imperial Kanauj
3. Majumdar, A.K.: Bhakti Renaissance, Bhartiya Vidyabhawan, Calcutta.
4. Majumdar, R.C. and Altekar, A.S Vakataka: Gupta Age, Motilal Banarasi Das, 2007.
5. Pande, Rekha: Religion movement in Medieval India, Gyanbook, New Delhi.
6. Pathak Vishudhanand: Uttar Bharat ka Rajnitik itihas (600-1200 A.D) Hindi Sansthan, Uttar Pradesh, 1973
7. Raychaudhary, H.C.: Political History of Ancient India.
8. Sastri, K.A. Nilkanta: A History of South India, from Prehistoric times to the fall of Vijaynagar, Oxford University Press, 1955, also, in Hindi translation by Bihar Hindi Granth Academy.
9. Sastri, K.A. Nilkanta: Studies in Chola History and Administration, University of Madras, 1932.
10. Shastri, K.A Nilkanta: History of South India: from Prehistoric times to the Fall of Vijaynagar, IV Edition, 1975
11. Singh, Upinder: A History of Ancient and Early Medieval India, from Stone Age to Early Medieval India, a Pearson pub., New Delhi, 2008.
12. Srivastva, B: Dakshin Bharat Ka Itihas , Caukhambha Prakashan, Varanasi, 2010.
13. Tripathi, R.S: History of Kannauj to the Moselm conquest, 1986.
14. Vaidya, C.V.: Early History of Rajputs (750 to 1000 A.D), Reprint, Gyanbooks, New Delhi, 2019.
15. Vaidya, C.V: History of Medieval Hindu India, Reprint, Gyanbooks, New Delhi, 2018.

MIC-6
History of Europe- 1789-1919

Course Outcome:

- The students will be able to analyze the historical developments in Europe between 1789-1919. As it focuses on the democratic & socialist foundations of modern Europe.
- They will be able to situate historical developments of socialist upsurge & the economic forces of the wars, other ideological shifts.

MIC-6 History of Europe- 1789-1919 (3Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
I	Rise of Nationalism in Europe a) Rise of Napoleon and Downfall of Napoleon b) Congress of Vienna and its significance c) Revolutions of 1830 and 1848: Causes and Consequences	6
II	Rise of New Nations a) Unification of Germany under Bismarck. b) Unification of Italy: Role of Cavour, Mazzini and Garibaldi	6
III	Capitalist Industrialization & Socio-Economic Transformation a) Industrial Revolution in Britain and Europe b) Rise of Socialism c) Imperialism and its impact	6
IV	International Relations: New Era & the Concept of Balance of Power. a) Congress of Berlin, b) Communism in Russia: The Bolshevik Revolution	6
V	Road to First World War and New World Order a) Circumstances leading to the First World War b) Paris Peace Conference and its Significance	6
	Total	**30**

Suggested Readings:

1. Aldrich, Robert Greater France: A History of French Overseas Expansion
2. Anderson, M.S The Ascendancy of Europe: 1815-1914 (3rd Ed. 2003)
3. Bartlett. C.J. Peace, War and the European Powers, 1814-1914 (1996) brief overview 216pp
4. Blanning, T.C .W Ed. The Nineteenth Century: Europe 1789-1914 (Short Oxford History of Europe) (2000)
5. Bridge, F.R & Roger Bullen. The Great Powers and the European States System 1814-1914, 2nd Ed. (2005)
6. Brunn, Geoffery, Europe and the French Imperium, 1799-1814 (1938)
7. Bury. J.P.T Ed. The new Cambridge Modern History: Vol. 10: The Zenith of European Power 1830-70 (1964)
8. Cameron, Rondo France and the Economics Development of Europe, 1800-1914: Conquest of Peace and Seeds of War (1961), a wide –ranging economic and business History.
9. Crawley, C.W Ed. The New Cambridge Modern History, Vol. 14: Altas (1972)
10. Evans, Richard j The Pursuit of power Europe 1815-1914 (2015)
11. Gildea, Robert Barricades and Borders: Europe 1800-1914 (3rd Ed. 2003)
12. Gooch, G.P History of modern Europe 1878-1919 (1923)
13. Grab, Alexander Napolean and the Transformation of Europe (2003)
14. Grant & Timperley: Europe in the Nineteenth and twentieth centuries.
15. Hayes C.J.H. A political and Cultural History of Europe, 1830-1839.
16. Herring, George C Years of Peril and Ambition U.S foreign Relations. 1776-1921 (2017)
17. Hinsley F.H Ed the New Cambridge modern History Vol. 11 Material Progress and World-Wide Problems 1870-1898 (1979)
18. Kennedy, Paul The Rise and Fall of the Great powers Economic Change and Military Conflict from 1500-2000 (1987), stress on economic and military factors
19. Kotelbey, C.D.M A history of Modern Times (English or Hindi)
20. Langer, William European Alliances and Alignments 1870-1890 (1950) Advanced history.
21. Langer, William The Diplomacy of Imperialism 1890-1902 (1950) advanced History
22. Lipson Europe in the Nineteenth and Twentieth centuries
23. Mason, David S A Concise History of Modern Europe, Liberty, Equality, Solidarity (2011). Since 1700
24. Merriman, John and J.M Winter eds. Europe 1789-1914. Encyclopaedia of the Age

of Industry and Empire (5 vol. 2005)
25. Mowat, RB: A History of European Diplomacy 1815-1914 (1922)
26. New Cambridge modern History (13 vol 1957-79), old but thorough coverage, mostly of Europe, strong on Diplomacy
27. Osterhammel, Jurgen: The transformation of the world: A Global History of the nineteenth Century (2015)
28. Porter, Andrew Ed.: The Oxford History of the British Empire Volume III: The Nineteenth century (2001)
29. Saimi Hannu: 19th Century Europe A cultural History (2008)
30. Sontag, Raymond European Diplomatic history: 1871-1932 (1933) Basic Summary 425pp
31. Steinberg, Jonathan: Bismarck A Life (2011)
32. Taylor AJP: The Struggle for Mastery in Europe 1848-1918 (1954) 638 pp- advanced history and analysis of major diplomacy
33. Wesseling, H.L The European Colonial Empire 1815-1919 (2015)
34. Bhatnagar and Gupt: Adhunik Europe ka Itihas (Bhag-2)
35. Lal ,K.S Lal: Adhunik Europe ka Itihas (Bhag-2)
36. Verma ,Lal Bahadur: Europe ka Itihas (Bhag-2), New Delhi Prakash Sansthan
37. Gupta ,Parthsarthi: Adhunik Paschim ka Uday, Hindi Madhyam Karyanvayan Nideshalaya (1983)
38. Gupta ,Parthsarthi: Europe ka Itihas, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi
39. Joll,James: Europe 1870 se, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi
40. Gupta ,Parthsarthi: Britain ka Itihas, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi
41. Saxena ,Banarasi Prasad: America ka Itihas, Hindi Madhyam Karyanvayan Nideshalaya, New Delhi

Course Structure (Semester VI)

SI.No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1.	Indian National Movement 1857-1947	MJC-10	4-1-0	4	100
2.	History of Modern India:1947-2000	MJC-11	5-1-0	5	100
3.	Cultural Heritage of India	MJC-12	5-1-0	5	100
4.	History of India:1200-1707	MIC-7	3-1-0	3	100
5.	History of ModernWorld:1919-1945	MIC-8	3-1-0	3	100
				Total Credit-20	
Exit Option: A student may be awarded 3-year UG Degree in the Major & Minor discipline, provided he/she earns all credits of I, II, III, IV, V & VI Semester.					

The **question paper pattern** for all courses shall consist of three parts –
Part A – Compulsory – consisting of objective/multiple choice type-
Each carrying two marks 10x2 = 20 marks
Part B – Short Answer Type – Four questions to be answered out of six questions-
Each carrying five marks 04x5 = 20 marks
Part C – Long Answer Type – Three questions to be answered out of five questions-
Each carrying five marks 03x10 = 30 marks
Total: 100 Marks **End Semester Examination: 70 Marks** **CIA: 30 Marks**

MJC-10
Indian National Movement (1857-1947)

Course Outcome:

- The contents of the syllabus are designed to cover core issues pertaining to the vast canvass of Nationalist history so that the student at the undergraduate level is equipped to focus upon the core ideas of the National Movement in its contextuality.
- The students will understand India's quest for Independence and Nation-building are interwoven scripts of history, debated most widely at the global level with various angles.
- They will comprehend India's National Movement has a vast and divergent ideological base with inner contradictions.

MJC-10	**Indian National Movement (1857-1947)**	**(4 Credits)**
Unit	**Topics to be covered**	**No. of Lectures**
I	Rise of Mass Nationalism a) Debates on 1857 and Its Impact on British Policies. b) Factors leading to growth of Nationalism in India & Social Background of Indian Nationalism. c) Formation of early political organizations d) Congress- Moderates & Extremists	12
II	From Swadeshi to Home Rule a) Economic Nationalism, Idea of Swadeshi, Swadeshi Movement & Congress Split at Surat b) Idea & formation of Muslim league: Demands and Early Programs c) First World War: Lucknow Pact, Home Rule Movement d) Entry of Gandhi: Regional Movements, Rowlatt Satyagraha, Khilafat Issue e) Indian Council Act of 1909 & Government of India Act 1919	12
III	Mass Movements of Congress & Alternative Ideologies a) Non-Cooperation Movement and Swarajists b) Revolutionary Movement, Trial of Bhagat Singh, Rise of Leftist Ideology c) Simon Commission, Nehru Report and Civil Disobedience Movement d) Tripuri crisis. Issues and Ideas of Subhash Chand Bose, Quit India Movement.	12
IV	Rise of Peasant, Workers, Tribals' Movement a) Peasant Issues since 1919, formation of Regional Peasant Associations and all India Kisan Sabha, Role of Madan Mohan Malviya & Sahjanand Saraswati. b) Rise of Industrial Worker Class, its issues and Formation of Trade Unions. c) Colonial Policies & Tribal Issues (1857- 1947)- Birsa Munda Ulgulan and Tana Bhagat Movement d) Government of India Act 1935	12

V	Road to Partition Independence a) Challenges of Communalism (1942- 1947) b) Role of INA, INA Trials & RIN Mutiny c) Constitutional Formulas: Wavell Plan, Cripps and Cabinet Mission d) Mountbatten plan, Circumstances leading to Partition & Independence e) Nationalist Movement in Princely states	12
	Total	**60**

Suggested Reading

1. Sarkar Sumit: Modern India 1885 n 1947. Macmillian, 1983
2. Jeffery R., Masseloss J: From Rebellion to the Republic
3. Brass Paul: The Politics of India since Independence
4. Subramanian K.G: The Living Tradition: perspectives on Modern Indian Art.
5. Dutta. K.K: Social History of Modern India
6. Desai A.R.: Social background of Indian Nationalism
7. Desai A.R.: India's Path of Development
8. Prasad, Bisheswar: Bondage and Freedom, Vol. 2
9. Singh Ayodhya: Bharat Ka Mukti Sangram
10. Patel Vallabh Bhai: Correspondence, Writings and Speeches
11. Agrow D.: Moderates and Extremist in the Indian National Movement
12. Gupta M.N.: History of the revolutionary Movement in India
13. Moon Penderal: Divide and Quit
14. Sarkar Sumit: Adhunik Bharat
15. Chand Tara: History of Freedom Movement in India, Vol. 3
16. Mehrotra S.R: The Emergence of Indian National congress
17. Chandra Bipan and Others: Freedom Struggle
18. Delanty Gerard & Kumar Krishna, Nations & Nationalism

MJC-11
History of Modern India (1947-2000)

Course Outcome:

- Students will learn about the post-war Developments of Social, Political and Economic scenarios of India.

MJC-11	History of Modern India (1947-2000)	(5 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	The Impact of Colonialism and National Movement: a) Impact of Colonialism on Political, Social, Economic System and Cultural Values. b) National Movements after Independence: Its significance, Value and Legacy c) Partition and Independence of India: Role of Congress & Communists, Hindu Mahasabha and others d) Integration of Princely States; special discussion on Hyderabad, Junagarh and Jammu & Kashmir	12
II	Indian Constitution and Consolidation as a Nation: a) Definition of Bharat (India) as 'Shaswat Rashtra' and Framing of Indian Constitution - Constituent Assembly - Draft Committee Report - declaration of Indian Constitution, Role of Dr. B.R. Ambedkar, Indian constitution - Basic Features and Institutions. b) The Linguistic Reorganization of the States, Regionalism and Regional inequality c) India's Relations with Neighbouring countries; Pakistan, China, Nepal, Sri Lanka, Afghanistan and Myanmar. d) Evolution and Development of Parliamentary Democracy	12
III	Developments in India since independence: a) Politics in the States: Tamil Nadu, Andhra Pradesh, Assam, West Bengal and Jammu & Kashmir, the Punjab crisis. b) Development of Science, Technology and Modern Education System & Policies. c) Industrial Policy; Emergence of Public Sector Enterprises d) Social Justice; Law & Politics for the upliftment of the weaker sections and tribal issues.	12
IV	Socio-Economic development since independence: a) Indian Economic development - industrialization, liberalization and globalization. b) Land Reforms: Zamindari Abolition and Tenancy Reforms, Ceiling and the Bhoodan Movement, Cooperatives and an Overview, Agriculture Growth and the Green Revolution and Agrarian Struggles Since Independence	12

	c) Significance of political & social movements, Women Empowerment and the question of Peasant rights d) Issue of Identity Politics: Communalism; Regional and Caste Consciousness; Dalit Politics, Untouchability, Anti-caste Politics and Strategies	
V	India and the World: a) India's Foreign Policy in the Nehru (1947-1964) & post Nehru (1964-2000) period, challenges and responses. b) Issue of Non-Alignment movement after the end of the Cold War. c) Emergence of Terrorism, Issues and Challenges d) India's Role in the Contemporary World.	12
	Total	**60**

Suggested Readings:

1. Balbushevik, A. & Dyakov, A.M.:A Contemporary History of India
2. Basu, D.D.: Shorter Constitution of India
3. Bettleheim: Charles, India Independent
4. Pal Bipin Chandra: Essay on Contemporary India,
5. Pal Bipin Chandra: India's Struggle for Independence
6. Chahal, S.K.: Dalits Patronized
7. Gadgil D.R.: Policy Making in India
8. Davies, H.A.: Outline History of the World
9. Fisher, H.A.L: A History of Europe
10. Gaur, Madan, India: 40 Years after Independence
11. Guha, Ranjit (ed.), Subaltern Studies, Vol. I-XI
12. Hasan, Mushirul, India's Partition: Process, Strategy and Mobilization
13. Henderson, O.P., The Industrial Revolution on the Continent
14. Hill, Christopher, From Reformation to Industrial Revolution
15. Hinsely, F.H. (ed.), Modern History: Material Progress and World Wide Problems
16. Jaisingh, Hari, India and Non-Aligned World: Search for A New Order
17. Joll, James, Europe Since 1870: An International History
18. Kothari, Rajni: Democratic Policy and Socialist Change in India
19. Langer, W.L.: Diplomacy of Imperialism
20. Langer, W.L.: European Alliances and Alignments
21. Majumdar, Datta and Ray Chowdhary: Advanced History of India
22. Nanda, B.R., Gandhi: A Biography
23. Nanda, B.R., Jawaharlal Nehru: A Biography
24. Omvedt, Gail, Dalits and Democratic Revolution: Dr. Ambedkar and Dalit

Movement in Colonial India
25. Palmer, R.A. and Cotton Joel, A History of Modern World
26. Patel, Vallabhbhai, Correspondence, Writings and Speeches
27. Rao, U. Bhaskar, The Story of Rehabilitation
28. Rolls, Eric, History of Economic Thought
29. Rude, George, Revolutionary Europe
30. Sarkar, Sumit, Modern India
31. Satyamurti, T.V., India Since Independence
32. Srinivas, M.N.:Social Change in Modern India
33. Starvrianes, L.S.: The World Science 1500
34. Tara Chand: History of the Freedom Movement in India, Vol. IV
35. Taylor, A.J.P: The Origins of the Second World War
36. Thompson, David: Europe Since Napoleon
37. V.P. Menon: The Story of Integration of the Indian States

MJC-12
Cultural Heritage of India

Course Outcome:

- This course enables students to explore various aspects of cultural heritage and cultural diversity in historical perspective that discusses numerous cultural practices that have evolved over centuries.
- They will acquire knowledge of changing socio-cultural scenarios of India. As well as they can gather knowledge about the cultural heritage, cultural forms and cultural expressions performing arts, fairs and festivals.

MJC-12	Cultural Heritage of India	(5 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	Indian Cultural Heritage: An Introduction a) Meaning, Concept and Historical Background of Cultural Heritage b) Types of Indian Cultural Heritage: Tangible, intangible Oral and Living traditions. c) Significance of Cultural Heritage in Human life. d) Impact and significance of geography on Indian culture.	12
II	Fairs Festivals, Rituals: Ethnic Indian Cultural Construct a) Concepts, Significance and types (Religious, folk, Animals, Monsoon): Historical background and some major fairs of India b) Concepts, Significance, types and some major Festivals of India: Buddha Poornima, Diwali, Dusshera, Holi, Onam, Pongal Guru Parb, Eid- Ul-Fitr, Navroz, Swatantra Diwas c) Meanings, concepts, significance and importance of Ritual in human life, Types of Ritual: An Introduction (Nature Worship, Domestic Worship, Samskara); d) Concepts of Tirthas: Some important Tirthas of India (Amarnath, Haridwar,Vrindavan, Pushkar, Prayag, Dwarka, Puri, Rameshwaram, Guruvayur, Kashi, Ayodhya)	12
III	legends, Narratives and Cultural Ethos a) Meaning, significance, forms and tradition of legends and their historical background in India. b) Ramayana and Mahabharata: Tradition of Cultural Heritage; c) Ancient Indian fables of ethical and moral values: Panchtantra, Jataka. d) Nature, Culture and Environment in India; Inter relationship; Environment and Environmental consciousness in Indian ethos and philosophy.	12
IV	UNIT IV Traditional Performing Art a) The source of performing Indian classical Art: Bharat Natya Shashtra, Works of Kalidas & Bhasa b) Indian Classical Dances as Cultural Dances: Bharatnatyam, Katthak,	12

	Kuchipudi, Kathakali etc. c) Folk dances and theatre: Regional variation, some important folk dances, Garba, Ghoomar, Lavani, Changlo, Giddha,Kalbelia etc. d) Oral Tradition and performing Arts- Bhajan, Katha, Sankirtan, Harikatha, Vedic Chants, Gurbani (Gurugranth) as Intangible Cultural Heritage.	
V	UNIT V Architecture and Built Heritage a) Meaning, Definition and Ideas of Built Heritage: Brief survey of Shelter, pit dwellings, Rock Alignments, Memorials, Shrines, Water tanks, Garden b) Significance and Contribution of Architecture and Built Heritage in Cultural Life of India. c) Some important Monuments of India Shore Temple (Mahabalipuram), Ajanta-Ellora, Bhimbetka, Sarnath, Nalanda, Sanchi, Konark, Khajuraho, d) Some important historical monument: Hampi, Vijayanagar, Chittorgargh Fort & Kirti Stambh, Taj mahal, Golden Temple, Red fort, Amber fort, Hazratbal, .	12
	Total	**60**

Suggested Readings:

1. Achaya, K.T , Indian food: A Historical Companion, oxford University Press, 1998.
2. Banga, I. (ed).: The City in Indian History : Urban Demography, Society and Politics, Delhi, Manohar, 1991
3. Basham A.L: The wonder that was India. Picador Publisher, Indian ed. 2014
4. Biswas Shekhar: Protecting the Cultural Heritage (National Legislation and International Convention, Aryan Books International, 1999.
5. Bose N.K : "Culture Zones of India" in culture and Society in India, Asia publishing House
6. Dinkar Ramdhari Singh: Sanskriti ke chaar Adhyaya, Udyanchal Publishers
7. Gokulsing, K. Moti : Popular Culture in a Globalized India, New Delhi, Routiledge, 2009
8. Hansen Kathryn: Grounds for play, The Nautanki Theatre of north India, University of California
9. Mehta Bhanu Shankar: Ramlila Varied Respective , B.R Publishing Corporation, 2011
10. Narayan S.: Indian Classical Dances, Shubhi Publications, 2005.s
11. Prakash, H.S :Shiva Traditional Theatres, Incredible India Series, New Delhi, 2007
12. Radhakrishnan S.: "Culture of India" in the Annals of the American Academy of Political and Social Science, Vol 233, India Speaking (may 1944).pp 18-21

13. Rangacharya A.: The Natya shastra, English translation with critical Notes, New Delhi, Munshiram Manoharlal Publishers Pvt ltd.
14. Thapiyal K. , Shukla S.: Sindhu Sabhyataien, Luckhnow,2003
15. The Director General Survey of India (ed.) Guide Books: World Heritage Series, New Delhi
16. Tiwari Shashi, Origin of Environmental Science from Vedas. A Research paper presented at the National Seminar on" Science and Technology" in Ancient Indian Text, Special Centre for Sanskrit Studies. JNU, 9-10th, January, 2010
17. Varadara Raman: Glimpses of Indian Heritage, Popular Prakashan Private Ltd., Bombay, 1989
18. Varapande, M.L : History of Indian Folk Theatre (Lok Ranga Panorama of Indian Folk Theatre) Abhinav Publications,1992
19. Vasudev V.: Fairs and Festivals, Incredible India series, 2007

MIC-7

History of India (1200-1707)

Course Outcome:

- To develop understanding regarding the major political developments in the History of India during the period.
- To have knowledge about the changes and continuities in the field of culture, especially with regard to Art, Architecture, Bhakti and Sufi movement.
- To delineate the development of trade and urban complexes during this period.

MIC-7	History of India (1200-1707)	(3 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	**Medieval India** a) Important sources of Medieval Indian History b) Early Turks, Khaljis, and Tughlaqs, Invasion of Timur c) Vijayanagara Empire: Administration, Society and Economy	6
II	**Afghans and Mughals** a) Afghan Rule: Lodis and Surs b) Establishment and Expantion of Mughal Empire c) Administration and Revenue System	6
III	**Aurangzeb, Shivaji and Other Powers** a) Rise of Marathas under Shivaji b) Maratha Administration, Concept of Hindu Pad Padshahi c) Aurangzeb and Decline of the Mughal empire	6
IV	**Society and Economy** a) Hindu Society and Muslim Society, Divisions and Occupational groups, Education, Position of Women b) Development of Agriculture, Trade and Commerce, Process of Urbanisation	6
V	**Religion and Culture** a) Bhakti and Sufi movement b) Development of Literature, Art and Architecture	6
	Total	**30**

Suggested Readings

1. Srivastava , A.L, *Delhi Sultanate (English or Hindi Version)*, Shiv Lal Agarwal & Co., Agra, Reprint, 2017
2. Srivastva A.L,*The Mughal Empire* (English or Hindi Version), ShivLal Agarwal & Co., Agra, Reprint, 2017
3. Yadav B.N.S, *Society and Culture in North India in the12th century*, Raka Prakashan, Prayagraj, 2012
4. Majumdar B.P., *Socio-Economic History of Northern India*, Firma K.L. Mukhopadhyay (1960)
5. Purandare Babasaheb, *Raja Shivachattrapati,Vol.I & II*, Purandare Prakashan, 2020
6. Ojha, G.H., *Rajputane Ka Itihas,(Hindi)*, VaidikYantralaya, Ajmer,1927
7. Prasad, Ishwari, *Medieval India (English or Hindi version)* 4th ed.,Digitized 2006
8. Sarkar J.N., *Life and Times of Shivaji*, Orient Blackswan Pvt.Ltd., NewDelhi,2010
9. Majumdar, Raychaudhary & Dutta, *An Advanced History of India*, Laxmi Publications,2016
10. Habib Mohammad and Nizami K.A., ed., *Comprehensive History of India, Vol.V, The Delhi Sultanate*, PPH, 1992
11. Majumdar R.C. & others(ed.), *The History and Culture of the Indian People Vol.6, the Delhi Sultanate*, Bhartiya Vidya Bhawan, 2006
12. Pande, Rekha, *Religious Movements in Medieval India*, Gyan Publishing House,2005
13. Chandra Satish, *Uttar Mughal Kalin Bharat Ka Itihas*, Minakshi Prakaskan,1974
14. Shrivastava Nripendra Kumar, *Process of Urbanisation of Bihar during the Medieval Period*, Janki Publication, Patna,2014
15. Shrivasta Ashivadi Lal, *Delli Sultanat*, (Hindi)
16. Chandra Satish, *Madhyakalin Bharat*, Bhag-1

MIC-8
History of Modern World (1919- 1945)

Course Outcome:

- The students will have an understanding of an era of shifting history from Euro centric to World.
- They will be able to comprehend the turbulent times when totalitarianism rose as an alternative to democratic and liberal ideal and also the growing desire for peace through formation of organizations such as United nations.

MIC-8	History of Modern World (1919- 1945)	(3 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	**A New World Order** a) Formation of the League of Nations: Organizations, Achievements & Failures b) Formation of ICJ & ILO	6
II	**Rise of Totalitarianism** a) Failure of Weimar Republic & Rise of Nazism in Germany b) Factors leading to the Growth of Fascism in Italy c) Rise of Militarism in Japan	6
III	**Anti-Imperialist Movements between the Great Wars** a) Arab Nationalism b) Nationalist Movement in China with reference to The role of Dr.Sun Yat-Sen	6
IV	**Crisis of Capitalism** a) The Great Economic Depression: 1929 b) Reconstruction and New Deal Policy of F.D Roosevelt	6
V	**Quest for security and road to Second World War** a) Causes and Consequences of Second World War b) U.N.O its Organization and Achievements	6
	Total	**30**

Suggested Readings

1. Barzun Jacques from Dawn to Decandence 500 years of western Cultural life : 1500- present New York, Harper Collins 2001
2. Benns F. Lee : Europe Since 1914
3. Car, E.H (1948) International Relations between two World Wars (1919-1939), Delhi, Macmillian & Co.
4. Carsten. F.L (1982) : The Rise of Fascism University of California Press
5. Cayley, E.S (1856) The European revolutions of 1848, London Smith Elder & Co. Vol I and II
6. Contemporary History of the World by Edwin Augustus Grosvenor
7. Crawley C.W (1965) The new Cambridge modern History Volume 9. War & Peace in an age of upheaval. 1793-1830. Cambridge University Press.
8. Dhar, S.N (1967) : International Relations and World Politics since 1919, Bombay, Asia Publish House
9. Doenecke Justus D. Stoler Mark A (2005). Debating Franklin D roosevelt's Foreign
10. Policies. 1933-1945 Rowman & Little field
11. Dunan Marcel Larousse: Encyclopedia of Modern History from 1500 to the Present day, New York Harper & Row, 1964.
12. Duruy V & Grosvenor E.A (1894) History of modern times: From the fall of Constantipole to the French Revolution, New York H Holt and Company
13. Walters FP: A History of the League of Nations (oxford 1965)
14. Gaddis John Lewis (1972) The UNITed States and the Origins of the Cold War, 1941- 1947 Columbia University Press
15. Grosvenor, Edwin A Contemporary History of the World New York and Boston T.Y Crowell & Co. 1899
16. Webster Henry Kitchell : Early European History
17. Michelet Jules, Mary Charlotte, Mair Simpson : A summary of Modern history

Course Structure (Semester VII)

Sl.No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1.	Asian Resurgence	MJC-13	5-1-0	5	100
2.	Research Methodology	MJC-14	5-1-0	5	100
3.	History of Communication	MJC-15	6-1-0	6	100
4.	History of India:1707-1857	MIC -9	4-1-0	4	100
		Total Credit-20			

The **question paper pattern** for all courses shall consist of three parts –
Part A – Compulsory – consisting of objective/multiple choice type-
Each carrying two marks 10x2 = 20 marks
Part B – Short Answer Type – Four questions to be answered out of six questions-
Each carrying five marks 04x5 = 20 marks
Part C – Long Answer Type – Three questions to be answered out of five questions-
Each carrying five marks 03x10 = 30 marks
Total: 100 Marks **End Semester Examination: 70 Marks** **CIA: 30 Marks**

MJC-13
Asian Resurgence

Course Outcome:

- Students will be able to analyze how global forces of Economic, Political and Cultural Change affecting Contemporary Asian Societies.
- They will be able to explain basic historical linkages between Asia and the world, including economic and cultural linkages.

MJC-13	Asian Resurgence	(6 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	Rise of Nationalities & Cultures a) Geographical Outline of Asia & Concept of Resurgence. b) Historical Development of China & Japan. c) Rise of Nationalities in West & Central Asia. d) History & Culture of South East Asia.	12
II	Resistance & Resurgence of Japan a) Crisis & Challenges: Opium Wars and opening of Japan. b) National Identity and Japan's Meiji Restoration, 1868-1894. c) Rise of Imperial Japan in the beginning of 20th Century. d) Rise of Japan as World Power 1919-1939.	12
III	East Asia in the Age of Imperialism and Nationalism, 1868-1945 a) China's reaction to imperialism; the nationalist movement 1911-1927. b) Chinese search for identity 1930-1947. c) Age of Chinese domination 1947-1990. d) Prosperity and Growth of China.	12
IV	Asia and its resistance to Cold War a) Communism and East Asia b) Cold War and Korea. c) Occupation, Reconstruction, and Prosperity in Japan 1945-1970 d) The Resistance in Vietnam.	12
V	Emerging trends and emergence of ideologies in West Asia a) Nationalism: Arab, Iranian and Turkish. b) Emergence of Mohammad Ali Pasha and his reforms. c) Disputes: Arab-Israel, Iran-Iraq, Ethnic-Sectarian Conflict. d) The Changing political and strategic environment: Regional and Global Implications.	12
	Total	**60**

Suggested Readings:

1. Azad, Abul Kalam (1988). India Wins Freedom: The Complete Version. Madras and Hyderabad: Orient Longman.
2. Bagchi, A.K. (1982). The Political Economy of Underdevelopment. Cambridge: Cambridge University Press.
3. Bhagavan, Manu (2010). A new hope: India, the UNITed Nations and the making of the universal declaration of human rights. Modern Asian Studies, vol. 44, No. 2, pp. 311-347.
4. Chowdhury, Anis (2009). Microfinance as a poverty reduction tool–a critical assessment. Working Paper, No. 89 (ST/ESA/2009/DWP/89). New York: UNITed Nations Department of Economic and Social Affairs.
5. Cumings, Bruce (1984). The legacy of Japanese imperialism in Korea. In The Japanese Colonial Empire, 1895-1945, Ramon H. Myers and Mark R. Peattie, eds. Princeton, New Jersey: Princeton University Press.
6. Feeny, David (1982). The Political Economy of Productivity: Thai Agricultural Development, 1880-1975. Vancouver: University of British Colombia.
7. Hasan, Pervez (2008). Pakistan. In Handbook on the South Asian Economies, Anis Chowdhury and Wahiduddin Mahmud, eds. London: Edward Elgar.
8. Ingram, James C. (1971). Economic Change in Thailand 1850-1970. Stanford: Stanford University Press.
9. Jolly, Richard, and others (2004). UN Contributions to Development Thinking and Practice. Bloomington, Indiana: Indiana University Press.
10. Manarungsan, S. (1989). Economic Development of Thailand 1850-1950, Response to the Challenge of the World Economy. Bangkok: Institute of Asian Studies.
11. Myers, Ramon H., and Mark R. Peattie, eds. (1984). The Japanese Colonial Empire, 1895-1945. Princeton, New Jersey: Princeton University Press.
12. Robinson, E.A.G., and Keith Griffin, eds. (1974).The Economic Development of Bangladesh within a Socialist Framework: Proceedings of a Conference by International Economic Association. London: Macmillan.
13. Sapir, Jacques (1996). Inflation and transition: from Soviet experience to Russian reality. InFinancial Fragility, Debt and Economic Reforms, Sunanda Sen, ed. London: Macmillan.
14. Simmons, Colin (1985). "De-industrialization", industrialization and the Indian economy, c. 1850-1947. Modern Asian Studies, vol. 19, No. 3, pp. 593-622.
15. Wightman, David (1963). Toward Economic Co-operation in Asia: The UNITed Nations Economic Commission for Asia and the Far East. New Haven, Connecticut: Yale University Press for the Carnegie Endowment for International Peace.
16. Yong, Tan Tai (2005). The Garrison State: Military, Government and Society in Colonial Punjab, 1849-1947. New Delhi: Sage.
17. Pruthi R.K., Deepa Bhandari: Adhunik Asia ka Itihas, 2017Arjun Publishing House, New Delhi.
18. Pandey Dhanpati, Motilal Banarasidas : Adhunik Asia ka Itihas (1997). Publication, Varanasi.
19. Vinake Herald M., Translated by Kumari Mishla Mishra· Purva Asia Ka Adhunik Itihas (1994), , Uttar Pradesh Hindi Sansthan, Lucknow.
20. Upadhyay Vidyanand : Dakshin Purva Asia Ka Rajneetik Itihas (1987), Bihar Hindi Granth Akademi, Patna

MJC-14
Research Methodology

MJC-15
History of Communication in India

Course Outcome:

- This course will enable students to understand past of Communication in India.
- They will also understand in depth various dimensions of communication in Indian Past.

MJC-15	History of Communication in India	(6 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	Communication: Concept and History a) Communication: Definition, Concept, Elements & Scope. b) Types of communication: Formal and Informal, Verbal and Non-Verbal, Oral and Graphic. c) Different Process, Functions, Theories and Philosophy of Communication. d) History of Communication: A Brief Survey, Primitives, Petroglyphs, Pictogram, Ideograms, Writing, Printing.	12
II	Means of Communication a) Art as means of Communication: Painting, Sculpture, Symbols, Signals b) Folk and Community Communication- Folk songs, Folklore, Folk craft, Legends. c) Performing Art as effective Communication: Dance, Drama, Theatre, Puppetry, and Storytelling. d) Changing dimensions of Communication in Modern times. Basic Knowledge of new means of Communication: Telephone/ Phonograph/ Radio/ Television/Fax/ Mobile /Computer/Internet/ Digital.	12
III	Writing and Language as Communication a) Inscription as a source of Communication b) Evolution of Printing in India. c) History of Newspaper in India. d) An Introduction of the History of Advertisement	12
IV	History of the Ideas of Communication in India a) History of the Communication in India: Narad, Krishana, Buddha, Shankar, Vivekananda and Gandhi. b) Literature as communicators in India: Myth and legends, Natyashastra, Meghdoot, Panchtantra, Gurugranth Sahib, Ramcharita Manas. c) Live examples of Visual arts in India: Bhitti chitra, Rock Art and Potteries.	14

V	Museum & Archive Communication a) Museum and archives as a source of historical and cultural communication. b) Museum: Artifacts, Galleries, Exhibition and outreach programme. c) Monument as a living Museum. d) Case study of any Art Museum.	10
	Total	**60**

Suggested Readings:

1. Vatsyayan, Kapila : Traditional Indian Theatre
2. ----------: Tradition of Indian Folk Dance
3. ----------: Bharat the Natyashashtra
4. Bim Mason: Painted Rock shelters of India
5. Mukharji Ajit: Folk Art of India
6. Singhal & Rogers: Indian Communication Revolution: From Bullock Cart to Cybers Marts
7. Ahuja B.N: History of India Press
8. Das Sukumar: The Book Industry in India: Context, Challenges and Strategy
9. Diringer David: The Book before printing, Ancient, Medieval and Oriental
10. Mukhopadhyay DD: Folk Arts and Social Communication
11. Zimmer H.: Myth and Symbolism in Indian Art and civilization
12. Werner & Tankard: Communication- Theories Origin& Method
13. Pandey Rajbali : Indian Rocks painting: Their Chronology, Technique and Preservation
14. Pandey S.K. : Indian Rock Art, Aryan Book ltd, New Delhi, 1993
15. Chakravartey Somnath: Interpreting Rock Art in India, A holistic and Cognitive Approach
16. Wakankar V.S: Painted Rock shelters of India
17. Raymond William : Communication, Culture & Media

MIC-9
History of India (1707-1857)

Course Outcome:

- The students will be able to trace the British colonial expansion in the political contexts of eighteenth-century India.
- They will learn about the changes in society, politics, religion and economy during this period.
- They'll also acquire knowledge about the Freedom Struggle.

MIC-9	History of India (1707-1857)	(4 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	**Downfall of Mughals and Maratha Power** a) Disintegration of Mughal Power: Main Political Trends b) Expansion of Maratha Kingdom under Peshwas and Maratha confederacy c) Causes of the Downfall of Maratha power- Third Battle of Panipat	8
II	**Rise of Indian States** a) Rise of Punjab and Bengal in the 18th Century b) Rise of Hyderabad and Awadh in the 18th Century	8
III	**Expansion of East India Company's Rule** a) Ascendancy of English East India Company: Battle of Buxar and Plassey; Their effects b) Territorial Expansion of East India Company1765- 1856	8
IV	**Administration of East India Company** a) Economic Policies- Agriculture, Trade, Banking, Land revenue b) Response of Indian Society and socio-religious reform movements	8
V	**Resistance to Colonial Power** a) Tribal Revolts: Bhil, Kol, Santhal, Gond and others b) First War of Independence: Causes, Nature	8
	Total	**40**

Suggested Readings:

1. Banerjee A.C : The New History of modern India (1707-1947)
2. Basu B.D. : Rise and Fall of Christian Power in India, Vol. II
3. Grover B.R : A new look on Modern Indian History
4. Bayly C.A : An illustrated History of Modern India 1600-1947
5. Chabra, G.S. : Advance History of Modern India
6. Kumar D. : The Cambridge Economic History of India
7. Desai A.R: India's Path of Development
8. Desai, A.R. : Social Background of Indian Nationalism
9. Dodwell : A Sketch of the History of India
10. Dutta,K.K : Social History of Modern India
11. Freedenberg, R.E : Land Control and Social Structure in India
12. Prasad I.& Subedar: History of Modern India (English or Hindi)
13. Farquhar J.N : Modern Relegious Movements in India
14. Sarkar J.N. : Mughal Economy
15. Veluthat Kesvan : Political Structure of Early Medieval South India
16. Lal, Sunder : Bharat me Angreji Raj
17. Ali M. Athar : Mughal Nobility under Aurangzeb
18. Mishra, B.B : Administrative History of modern India
19. Karashima Nobora : South Indian History and Society
20. Marshall P.J.: The Eighteenth century in Indian History
21. Majumdar R.C : British Paramountacy and Indian Renaissance (Part I)
22. Dutt R.P : India Today
23. Tripathi R.P. : The Rise and Fall of Mughal Empire
24. Muir Ramsay: The making of British India
25. Sarkar Sumit : Modern India
26. Sarkar Sumit: Adhunik Bharat
27. Sen Sunil K. : Agrarian Relations in India, 1793-1947
28. Singh, G.N : Constitutional Development of India
29. Stein Burton : The Making of Agrarian Policy in british India, 1770-1900
30. Gordon Stewart: The Marathas 1600-1818
31. Sarkar Sumit: Modern India 1885-1947
32. Metealf Thomas: Ideologies of the Raj
33. Thompson & Garret : Rise and Fulfillment of British Rule in India

Course Structure (Semester VIII)

SI.No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1.	Bihar Through the Ages	MJC-16	4-1-0	4	100
2.	Indian National Movement 1857-1947	MIC - 10	4-1-0	4	100
3.	Research Project/ Dissertation	RP- 1	-	12	100
				Total Credit-20	

Exit Option A student will be awarded Degree in UG Honours Major and Minor if he/she earns all credits of I, II, III, IV, V, VI, VII & VII Semester. Students who want UG Degree Honours with Research in Major he/she must obtain 7.5 CGPA and above in the I to VI Semester. Such students can choose a research stream in the fourth year if they can (80 Credits, including 12 credits from a research project/dissertation). They will be awarded UG Degree (Honours with Research)

The **question paper pattern** for all courses shall consist of three parts –
Part A – Compulsory – consisting of objective/multiple choice type-
Each carrying two marks 10x2 = 20 marks
Part B – Short Answer Type – Four questions to be answered out of six questions-
Each carrying five marks 04x5 = 20 marks
Part C – Long Answer Type – Three questions to be answered out of five questions-
Each carrying five marks 03x10 = 30 marks
Total: 100 Marks **End Semester Examination: 70 Marks** **CIA: 30 Marks**

MJC-16
Bihar Through the Ages

Course Outcome

- The student will understand the connection between Regional history, National history and World history.
- They will know how their ancestors lived in this territory, where they are living today.
- They will understand the problems, their ancestors faced and how they countered those problems.
- They will know about the fragrance of the culture of Bihar.

MJC-16	Bihar Through the Ages	(4 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	**Historical and Political History of Bihar** a) Historical Geography of Bihar: From Pre-Historic times to 1200 b) Bihar during Sultanate and Mughal period c) Bihar's role in Indian Freedom Struggle: Revolt of 1857, Champaran Satyagraha, Non-Cooperation Movement, Civil Disobedience Movement, Quit India Movement d) Creation and Reorganization of Modern Bihar: 1912, 1935, 2000	12
II	**Art and Architecture** a) Art and Architecture in Bihar: Mauryan, Gupta, Post Gupta, Delhi Sultanate and Mughals b) Buddhist Sculptures, Ashoka Pillars and Pala Art c) Patna Kalam, Manjusha Painting, Madhubani Painting d) Historical monuments of Bihar: Barabar Caves,Vaishali Stupa,Nalanda Mahavihara, Mahabodhi Temple, , Tomb of Sher Shah Suri, Golghar,	12
III	**Cultural History** a) Folk Dances and Folk Tales: Jhijhiya, Jat-Jutin, Sama Chakwa, Jhumar, Vidyapati Nach, Puja Aarti, Domkach, Kathghorwa, Nach, Kajree, Launda Nach, Bidesiya, b) Festivals and Fairs: Chatta Puja, Shravani Mela, Sonepur Cattle Mela, Mukar Sankranti, Pritrapaksha Mela, Rajgir Mahotsava c) Religious Sects: Buddhism, Jainism, Sufism d) Educational Institutions: Nalanda, Vikramshila, Mithila School of Education, Udantpuri	12
IV	**Socio-Economic History** a) Panji Prabandha of Mithila b) Agriculture, Craft and Industry c) Trade and Commerce d) Urbanization	12

V	**Great Personalities of Bihar** a) Janak, Jeevak, Yajnavalkya, Maitreyi, Gargi b) Mandan Mishra, Jyotireshwar, Chandeshwar, Vidyapati, , Sant Dariya Saheb, c) Babu Kunwar Singh, Yogendra Shukla, Baikuntha Shukla, Rajendra Prasad, Mazharul Haque, Jaiprakash Narayan, Jagjivan Ram, Siyaram Singh, Veer Chand Patel, Dashrath Manjhi and Yamuna Karjee	12
	Total	**60**

Suggested Readings

1. Diwakar R.R.: Bihar Through the Ages
2. Choudhary R.K.: History of Bihar
3. Sinha B.P.: Comprehensive History of Bihar vol. I Part I&II
4. Ahmad Q.: Patna through the Ages
5. Askasi S.H. & Qeyamaddin Ahmad (ed.) Comprehensive History of Bihar Vol. III Part I&II
6. Dutta K.K. : History of Freedom Movement in Bihar 3 Vols
7. Sinha Ranjan: Aspect of Society and Economy of Bihar (1765-1856)
8. Singh Sudhir Kr. :Press, Politcs and Public Opinion in Bihar (1912-1947)
9. Raza Syed: Mazharul Haque; An Epitome of Indian Liberation and Communal Harmony
10. Patel Hitendra: Commutation and Intelligentsia in Bihar
11. Nayak Rajesh Kr.: Micro and Macro Prospection of Commutations in Bihar, Gyan Bharati, Varanasi 2014
12. Das Pramodanand & Kumar Amrendra: Bihar Itihas Evam Sanskriti
13. Dutta K.K. & Narain V.A. Ed): Comprehensive History of Bihar Vol. III Part I & II.
14. Shrivastava Nripendra Kr., History of Bihar
15. Shrivastava Nripendra Kr., Process of Urbanization of Bihar During the Medieval Period,Janaki Publication ,Patna
16. Jha Aditya Chandra (ed), Researches in the History and Culture of Bihar

MIC-10
Indian National Movement (1857-1947)

Course Outcome:

- The contents of the syllabus are designed to cover core issues pertaining to the vast canvass of Nationalist history so that the student at the undergraduate level is equipped to focus upon the core ideas of the National Movement in its contextuality.
- The student will able to understand India's quest for Independence and Nation-building are interwoven scripts of history, debated most widely at the global level with various angles.
- They will comprehend India's National Movement has a vast and divergent ideological base with inner contradictions.

MIC-10	Indian National Movement (1857-1947)	(4 Credits)
Unit	**Topics to be covered**	**No. of Lectures**
I	Rise of Mass Nationalism a) Factors leading to growth of Nationalism in India & Social Background of Indian Nationalism. b) Congress- Moderates & Extremists	6
II	From Swadeshi to Home Rule a) Economic Nationalism, Idea of Swadeshi, Swadeshi Movement & Congress Split at Surat b) Idea & formation of Muslim league c) Entry of Gandhi: Regional Movements, Rowlatt Satyagrah, Khilafat Issue	6
III	Mass Movements of Congress & Alternative Ideologies a) Non Cooperation Movement b) Simon Commission, Nehru Report and Civil Disobedience Movement c) Tripuri crisis: Issues and Ideas of Subhash Chand Bose, Quit India movement.	6
IV	Rise of Peasant, Workers, Tribals' Movement a) Peasant Issues since 1919, formation of Regional Peasant Associations and all India Kisan Sabha, Role of Madan mohan Malviya & Sahjanand Saraswati. b) Rise of Industrial Worker Class, its issues and Formation of Trade Unions.	6
V	Road to Partition Independence a) Constitutional Formulas: Wavell Plan, Cripps and Cabinet Mission b) Mountbatten plan, Circumstances leading to Partition & Independence	6
	Total	**30**

Suggested Reading

1. Sarkar Sumit: Modern India 1885 n 1947. Macmillian, 1983
2. Jeffery R., Masseloss J: From Rebellion to the Republic
3. Brass Paul: The Politics of India since Independence
4. Subramanian K.G: The Living Tradition: perspectives on Modern Indian Art.
5. Dutta. K.K: Social History of Modern India
6. Desai A.R.: Social background of Indian Nationalism
7. Desai A.R.: India's Path of Development
8. Prasad, Bisheswar: Bondage and Freedom, Vol. 2
9. Singh Ayodhya: Bharat Ka Mukti Sangram
10. Patel Vallabh Bhai: Correspondence, Writings and Speeches
11. Agrow D.: Moderates and Extremist in the Indian National Movement
12. Gupta M.N.: History of the revolutionary Movement in India
13. Moon Penderal: Divide and Quit
14. Sarkar Sumit: Adhunik Bharat
15. Chand Tara: History of Freedom Movement in India, Vol. 3
16. Mehrotra S.R: The Emergence of Indian National congress
17. Chandra Bipan and Others: Freedom Struggle
18. Delanty Gerard & Kumar Krishna, Nations & Nationalism

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:- **Regarding submission of proposed course uniform syllabus of Chemistry for 3rd to 8th Semester of 4 - Year undergraduate Course, (CBCS)**

Ref.:- Letter No.-BSU (UGC) -02/2023-1457/ GS(I) dated 14.09.2023

Sir,

In compliance with your letter no. BSU(UGC)-02/2023-1457/GS(I), dated-14.09.2023, we are submitting the proposed course syllabus of **Chemistry** for 3rd to 8th semester of the 4 - year under graduate course (CBCS) as per UGC regulations.

Yours sincerely

1 **Dr. Shailendra**
Professor & Head, Dept. of Chemistry
Patna University, Patna
Email.-shailendra1966bnc@gmail.com
Mobile -8210739742

2 **Prof. Himanshu Shekhar**
Professor, P.G. Dept. of Chemistry
V K S University, Ara
Email.-hshe2503@rediffmail.com
Mobile -7857929565, 8877311180

3 **Dr. Rabindra Singh,**
Professor & Head
(Additional)
J P University, Chapra
Email.-rabindrasingh4u@gmail.com
Mobile -9431622879

4 **Prof. Kalpana Shahi**
Professor
Patliputra University, Patna
Email.-drkalpnashahi@gmail.com
Mobile -8789552077

5 **Prof. B.B. Sharma**
Professor & Head
(Additional)
Magadh University, Bodh Gaya
Email.-brijbiharisharma111259@gmail.com
Mobile -9431224668

6 **Sonu Ram Shankar**
Assistant Professor
(Additional)
L N M University, Darbhanga
Email.-sonuram@gmail.com
Mobile -7004197060

7 **Dr. Ashok Kumar Yadav**
Professor & Head
(Additional)
B N M University, Madhepura
Email.-yadavkrashok@yahoo.co.in
Mobile -7366062257

8 **Dr. Vijay Kumar**
Associate Professor
(Additional)
B RA Bihar University, Muzaffarpur
Email.-kumarvijchem@gmail.comil.com
Mobile -9430059732

9 **Dr. Rana Pratap Singh***
Ex-HOD (TMBU)
(Additional)
T M B University, Bhagalpur
Email.-singhrpchem@gmail.com
Mobile -8757164950

10 **Prof. Ramchandra Singh***
HOD
(Additional)
J P University, Chapra
Email.-ramchandrasursaria@gmail.com
Mobile -9631725272

Chemistry

(A)Major Core Courses

Sem	Type of Course	Name of Course	Credits	Marks
I	MJC-1 (T)	Inorganic Chemistry I: Atomic Structure & Chemical Bonding (T)	6	100
II	MJC-2 (T)	Physical Chemistry I: States of Matter & Ionic Equilibrium (T)	4	100
	MJC-2 (P)	Physical Chemistry I: States of Matter & Ionic Equilibrium (P)	2	100
III	MJC-3 (T)	Organic Chemistry: Cyclic Hydrocarbons and their Halogen Derivatives (T)	5	100
	MJC-4 (T)	Physical Chemistry: Chemical Thermodynamics and its Applications (T)	3	100
	MJC-4 (P)	Physical Chemistry: Chemical Thermodynamics and its Applications (P)	1	100
IV	MJC-5 (T)	Inorganic Chemistry: *s*-, *p*-, *d*- and *f*-block elements (T)	3	100
	MJC-5 (P)	Inorganic Chemistry: Qualitative Analysis of Inorganic Salt Mixture. (P)	2	100
	MJC-6 (T)	Organic Chemistry: Compound with OxygenContainingFunctionalGroups. (T)	3	100
	MJC-6 (P)	Organic Chemistry: identification of oxygen Containing Functional Groups (P)	2	100
	MJC-7 (T)	Physical Chemistry: Phase Equilibria, Conductance and Electrochemical Cells	5	100
V	MJC-8 (T)	Inorganic Chemistry: Coordination Chemistry (T)	3	100
	MJC-8 (P)	Inorganic Chemistry: Coordination Chemistry, preparation of complexes (P)	2	100
	MJC-9(T)	Organic Chemistry: Polynuclear hydrocarbons, nitrogen containing compounds, heterocyclic compounds, alkaloids and terpenoids (T)	5	100
VI	MJC-10 (T)	Physical Chemistry: Colligative Properties of Dilute Solutions, Chemical Kinetics and Photochemistry (T)	3	100
	MJC-10 (P)	Physical Chemistry: Colligative Properties of Dilute Solutions and Chemical Kinetics (P)	1	100
	MJC-11 (T)	Organic Chemistry: Biomolecules (T)	3	100
	MJC-11 (P)	Organic Chemistry: Biomolecules (P)	2	100
	MJC-12 (T)	Physical Chemistry: Quantum Chemistry & Spectroscopy (T)	5	100
VII	MJC-13 (T)	Inorganic Chemistry: Organometallic Chemistry symmetry and Group theory (T)	5	100
	MJC-14 (T)	Research Methodology (T)	5	100
	MJC-15 (T)	Organic Chemistry: Spectroscopy (T)	6	100
VIII	MJC-16 (T)	Analytical Methods in Chemistry (T)	4	100

Sub Total = 80

SEMESTER- III

MJC-3 (T): Organic Chemistry: Cyclic Hydrocarbons and their Halogen Derivatives (T)

Course Outcomes

After completion of the course, students will be able to understand:

CO1: the aromatic character of the molecules.

CO2: the idea to design some organic synthesis.

MJC-3: Organic Chemistry: Cyclic Hydrocarbons and their Halogen Derivatives. (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Reaction intermediates:** Carbenes, nitrenes and benzynes: Generation, structure, stability and reactions.	12
2	**Chemistry of Cyclic Hydrocarbons:** Nomenclature of monocyclic and bicyclic compounds, Baeyer's strain theory, conformation of cyclohexane, relative stability of chair, boat and twist boat forms of cyclohexane with their energy level diagram, relative stability of mono- and disubstituted cyclohexanes, Aromaticity and Huckel rules with reference to benzenoids, cyclocarbocations and cyclocarbanions, mechanism of electrophilic aromatic substitution in benzene-halogenation, nitration, sulphonation, Friedel -Crafts alkylation/acylation, energy profile diagrams of these reactions, reactivity of mono-subsituted benzene, directive influence of functional groups.	12
3	**Chemistry of Halogen Derivatives of alkanes:** General methods of preparation, properties and uses of mono- and dihalo derivatives of alkanes. Mechanism of substitution and elimination reactions *viz.* S_N1, S_N2, S_N^i, E1, E2 and E1CB mechanism.	12
4	**Halogen derivatives of arenes:** General methods of preparation, properties and uses of halogen derivatives of arenes. Mechanism: ArS_N2, ArS_N1, elimination-addition mechanism (benzyne mechanism).	12
	TOTAL	48

Suggested Readings:

1. Reaction Mechanism in Organic Chemistry - S. M. Mukherjee and S.P. Singh
2. Organic Chemistry, vol.-1, I. L. Finar
3. Organic Chemistry – Morrison & Boyd
4. Organic Chemistry: Graham Solomons
5. Oranic Chemistry: Paula Yurkanis Bruice
6. Stereochemistry in Organic Chemistry: D. Nassipuri

7. Stereochemistry- Conformation and Mechanism: P.S.Kalsi.
8. Advanced Organic Chemistry, Fourth Edition, J. March, Wiley, India (2006)
9. Greeves, N., Clayden, J.; Warren, S., Organic Chemistry, 2nd Ed., Oxford University, Press India (2014).
10. Sykes, P., A Guidebook to Mechanism in Organic Chemistry, 6th Ed., Pearson Education India (2003)

Semester-III
MJC-4: Physical Chemistry: Chemical Thermodynamics and its Applications (T)

Course Outcomes

After completion of the course, students will be able to understand:

CO1: various thermodynamic terms.

CO2: various enthalpies of transformations and Kirchoff's law.

CO3: entropy changes, Gibbs free energy change, partial molar quantities, spontaneous and non- spontaneous processes.

CO4: second and third law of thermodynamics.

MJC-4: Physical Chemistry: Chemical Thermodynamics and its Applications (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Thermodynamics-I:** Definition of thermodynamic terms: system, surroundings, types of systems, intensive and extensive properties, state and path functions, thermodynamic processes, concept of heat and work, First law of Thermodynamics-Statements, definition of internal energy and enthalpy, Heat capacities at constant volume and constant pressure with their relationship, Joule's law, Joule-Thomson coefficient and inversion temperature, calculation of w, q, dU & dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible and irreversible processes.	12
2	**Thermochemistry:** Standard state, enthalpy of reaction, standard enthalpy of formation, Hess's law of constant heat summation and its applications, enthalpy of combustion, enthalpy of neutralization, bond dissociation energy and its calculation from thermo-chemical data, temperature dependence of enthalpy, Kirchoff's equation.	12
3	**Thermodynamics-II:** Second law of thermodynamics, need of the law, different statements of the law, Carnot theorem, Carnot cycle and its efficiency, concept of entropy, entropy as a function of V&T, P&T, entropy change in ideal gases and mixing of ideal gases, free energy and spontaneity, variation of Gibbs free energy (G) and Helmholtz free energy(A) with P,V and T, Maxwell's relations, Thermodynamic equation of state, Nernst heat theorem, third law of thermodynamics, statement, evaluation of absolute entropy from third law of thermodynamics, concept of residual entropy .	12
4	**Systems of Variable Composition:** Partial molar quantities, chemical potential, dependance of chemical potential with temperature and pressure, chemical potential of a gas in ideal gas mixture, Gibb's Duhem equation.	12
	TOTAL	48

Suggested Readings:

1. Peter, A. & Paula, J. de., Physical Chemistry 9th Ed., Oxford University Press (2011).
2. Castellan, G. W. Physical Chemistry 4th Ed., Narosa (2004).
3. Engel, T. & Reid, P. Physical Chemistry 3rd Ed., Prentice-Hall (2012).
4. McQuarrie, D. A. & Simon, J. D. Molecular Thermodynamics Viva Books Pvt. Ltd.: New Delhi (2004).
5. Assael, M. J.; Goodwin, A. R. H.; Stamatoudis, M.; Wakeham, W. A. &Will, S. Commonly Asked Questions in Thermodynamics. CRC Press: NY (2011).
6. Levine, I.N. Physical Chemistry 6th Ed., Tata Mc Graw Hill (2010).
7. Metz, C.R. 2000 solved problems in chemistry, Schaum Series (2006).

Semester-III

MJC-4 (P): Chemical Thermodynamics and its Applications (P)

Course Outcomes

After completion of this practical course, students will be skilled in determining:

CO1: different types of enthalpy changes.

CO2: the heat capacity of calorimeter.

CC-4: Chemical Thermodynamics and its Applications (Practical: 2 credits)
Practical: **Chemical Thermodynamics and its Applications** 1. Determination of water equivalent of calorimeter. 2. Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide. 3. Determination of enthalpy of ionization of ethanoic acid. 4. Determination of the basicity of a polybasic acid against standard sodium hydroxide solution. 5. Determination of heat of displacement of Cu by Zn from Cu^{2+} salt solution. 6. Determination of enthalpy of hydration of copper sulphate. 7. Determination of solubility of benzoic acid in water and ΔH for the process. 8. Determination of heat capacity of the calorimeter and integral enthalpy of solution of salts.

Suggested Readings:

1. Khosla, B. D.; Garg, V. C. & Gulati, A., Senior Practical Physical Chemistry, R. Chand & Co., New Delhi (2011).
2. Athawale, V. D. & Mathur, P. Experimental Physical Chemistry, New Age International, New Delhi (2001).

SEMESTER – IV

MJC-5 (T): Inorganic Chemistry: *s*-, *p*-, *d*- and *f*-block elements (T)

Course Outcomes

After completion of the course, the students will be able to understand: -

CO1: different oxidation states of elements with their relative stability and complex forming properties.

CO2: the ring, cage and polymers of B, Si & P.

CO3: to carry out the preparation of inorganic compounds.

CO4: the important properties of transition metals such as their oxidation states, colour, magnetic and spectral, use of Latimer diagrams in identifying oxidizing, reducing and disproportionating species.

CO5: the concepts related with noble gases, their compounds, shapes, properties and applications.

***s*-, *p*-, *d*-and *f*-block elements(Theory: 4 credits)**		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Periodic Table and Periodicity of Elements:** *s*-, *p*-, *d*- and *f*-block elements, the long form of periodic table, detailed discussion of the following periodic properties of the elements with reference to *s*- and *p*-block: (a) shielding or screening effect, Slater's rules, effective nuclear charge (b) atomic radii (covalent, metallic and van der Waals) (c) ionization enthalpy, successive ionization enthalpies, factors affecting ionization enthalpy and applications of ionization enthalpy. (d) electron gain enthalpy. (e) electronegativity: Pauling's, Mullikan, Allred Rochow's scales, group electronegativity, variations of electronegativity with bond order and partial charge. General electronic configuration of *s*- and *p*- block elements, inert pair effect, relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group, allotropy and catenation properties, complex forming tendency of *s*- and *p*- block elements,	10
2	**Compounds of *p* block elements:** Study of the following compounds with emphasis on structure, bonding, preparation, properties and uses:- Boric acid, borates, borazines, borohydrides, calcium carbide, silicon carbide, aluminium carbide, silicates, silanes, siloxanes, silcon halides, silicones, NH_3-manufacture (Haber's process), oxides, oxy-, peroxy acids of nitrogen, phosphorus and sulphur, inter-halogen compounds, polyhalides and pseudohalides.	10
3	**Chemistry of noble gases:** Occurrence and isolation, rationalization of inertness of noble gases, nature of bonding in noble gas compounds, shape and structure of noble gas compounds using VSEPR theory, preparation and properties of XeF_2, XeF_4 and XeF_6. Clathrates.	5

4	**Chemistry of d-block elements:** General electronic configuration of d-block metals and their group trends, variable oxidation states and their relative stabilities, magnetic and catalytic properties of metals, colour, complex forming ability of metals, difference between 1st, 2nd and 3rd transition series, Chemistry of Cr, Mn, Fe and Co in various oxidation states with special reference to their following compounds: peroxo compounds of Cr, potassium dichromate, potassium permanganate, potassium ferrocyanide and ferricyanide, sodium nitropruside and sodium cobaltinitrite.	10
5	**Chemistry of f-block Elements:** General electronic configuration of f- block elements (inner transition elements - 4f and 5f series), position of lanthanides and actinides in periodic table, group trends with special reference to electronic configuration, ionic radii and lanthanide contraction, consequences of lanthanide contraction, complex forming ability of lanthanides, occurrence and isolation of lanthanides, compounds of lanthanides, sources of actinides, chemistry of actinides, separation of Np and Pu from spent fuel .	10
	TOTAL	45

Readings:

1. Lee, J. D., Concise Inorganic Chemistry, 5th Ed., Wiley India (2008).
2. Housecroft, C. E.; Constable, E. C. Chemistry-An Introduction to Organic, Inorganic and Physical Chemistry, 4th Ed., Pearson Education (2010).
3. Atkins, P.; Overton, T.; Rouke, J.; Weller, M.; Armstrong, F.; Hagerman, M., Shriver Atkins's Inorganic Chemistry, 6th Ed., Oxford University Press India (2015).
4. Miessler, G.; Tarr, D. A., Inorganic Chemistry, 3rd Ed., Pearson Education India (2008).
5. Huheey, J. E.; Keiter, E. A.; Keiter, R. L.; Medhi, O. K., Inorganic Chemistry: Principles of Structures and Reactivity, 4th Ed., Pearson Education India (2006).
6. Cotton, F. A.; Wilkinson, G.; Gaus, P. L., Basic Inorganic Chemistry, 3rd Ed., Wiley India (2007).
7. Puri, B. R.; Sharma, L. R.; Kalia, K. C., Principles of Inorganic Chemistry, 33rd Ed., Vishal Publishing (2017).

Semester-IV

MJC-5 (P): Qualitative Analysis of Inorganic Salt Mixture Containing Four Radicals (P)

Course Outcomes

After the end of this practical course students will be skilled in: -

CO1: identification of basic radicals from known and unknown salts.

CO2: identification of acid radicals from known and unknown salts.

Qualitative Analysis of inorganic salt mixture containing Four Radicals. **(Practical:2 credits)**
1. Identification of known cations (basic radicals) and anions (acid radicals) from the supplied salt.
2. Identification of cation (basic radicals) and anions (acid radicals) from unknown salt.
3. Identification of cation (basic radicals) and anions (acid radicals) from binary mixture of inorganic salts.

SuggestedReadings:

1. Raj, G., Advanced Practical Inorganic Chemistry, Krishna Prakashan, Meerut (2013).
2. Mendham, J.; Denney, R. C., Barnes, J. D.; Thomas, M.; Sivasankar, B., Vogel's Quantitative Chemical Analysis, 6th Ed., Pearson Education India (2009).

Semester-IV

MJC-6 (T): Organic Chemistry: Compounds with Oxygen Containing Functional Groups (T)

CourseOutcomes

After the completion of the course, students will be able to understand:

CO1: preparation, properties and reactions of compounds with oxygen containing functional groups.

CO2: to draw plausible mechanisms for reactions involving these functional groups.

CO3: the knowledge of various named organic reactions associated with these functional groups.

CO4: chemistry of epoxides.

CO5: the detection of *O*-containing functional groups like alcohols, phenols, carbonyl and carboxylic acid groups.

CO6: the preparation of various organic compounds by functional group transformations and other common organic reactions.

CO7: the green practices in Organic syntheses.

Compounds with Oxygen Containing Functional Groups (Theory:4credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Alcohols, Phenols, Ethers and Epoxides** **Alcohols:** Classification and nomenclature. Preparation of 1°, $2^{o}$and 3°alcohols using substitution reaction, addition reactions, Grignard reagent, Ester hydrolysis, Reduction of aldehydes, ketones, carboxylic acids and esters. **Reactions:** With sodium, HX (Lucas test), esterification, oxidation (with PCC, alk. $KMnO_4$, acidic dichromate, conc. HNO_3). Oppeneauer oxidation. **Diols:** Oxidation of diols. Pinacol-Pinacolone rearrangement. **Glycerol**: Preparation, properties and uses. **Phenols:** Classification, nomenclature and properties **Preparation:** Cumene hydroperoxide method, from diazonium salts. **Reactions:** Electrophilic substitution: Nitration, halogenation and sulphonation. Fries and Claisen Rearrangements, Kolbe's–Schmidt Reaction, Lederer-Manasse reaction, Reimer-Tiemann Reaction, Gattermann-Koch Reaction, Houben–Hoesch Condensation, Schotten–Baumann Reaction. **Ethers and epoxides (aliphatic and aromatic):** Classification, nomenclature, preparation and properties. **Reactions:** Cleavage of ethers with HI. Syntheses of epoxides, Acid and base–catalyzed ring opening of epoxides, orientation of ring opening, reactions of Grignard and organolithium reagents with epoxides. Concept of crown ethers.	20

2	**Aldehydes and ketones (aliphatic and aromatic):** Structure, reactivity and preparation; nucleophilic additions, Nucleophilic addition-elimination reactions with ammonia derivatives and their mechanisms; mechanisms of Aldol and Benzoin condensation, Knoevenagel condensations, Claisen-Schmidt, Perkin, Cannizzaro and Wittig reactions, Beckmann and Benzil-Benzilic acid rearrangements, haloform reaction and Baeyer Villiger oxidation, α-substitution reactions,oxidations and reductions (Clemmensen, Wolff-Kishner, $LiAlH_4$, $NaBH_4$, MPV and PDC). Addition reactions of unsaturated carbonyl compounds: Michael addition. Active Methylene Compounds: Keto-enol tautomerism. Preparation and synthetic applications of diethyl malonate and ethyl acetoacetate.	10
3	**Carboxylic Acids and their Derivatives:** Preparation, physical properties and reactions of monocarboxylic acids. Typical reactions of dicarboxylic acids, hydroxy acids and unsaturated acids: succinic/phthalic, lactic, malic, tartaric, citric, maleic and fumaric acid. Preparation and reactions of acid chlorides, anhydrides, esters and amides; Mechanism of acidic and alkaline hydrolysis of esters, Claisen condensation, Dieckmann and Reformatsky reactions, Hofmann bromamide degradation and Curtius rearrangement.	09
4	**Carbohydrates** Classification and general properties of carbohydrates, Glucose and Fructose (open chain and cyclic structure), Determination of configuration of monosaccharides, absolute configuration of Glucose and Fructose, Mutarotation, ascending and descending in monosaccharides. Structure of disacharrides (sucrose, cellobiose, maltose, lactose) and polysacharrides (starch and cellulose).	09
	TOTAL	48

Suggested Readings:

1. Greeves, N.; Clayden, J.; Warren, S., Organic Chemistry, 2nd Ed., Oxford University, Press India (2014).
2. Sykes, P., A Guide book to Mechanism in Organic Chemistry, 6th Ed., Pearson Education India (2003)
3. Ghosh, S. K., Advanced General Organic Chemistry, Part-I & Part-II, 3rd Ed., New Central Book Agency (2010).
4. Bhal, B. S.; Bhal, A., A Textbook of Organic Chemistry, 22nd Ed., S. Chand and Company (2016).
5. Sengupta, S., Basic Stereochemistry of Organic Molecules, 2ndEd., Oxford University Press India (2018).
6. Finar, I. L. Organic Chemistry (Volume1), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).

Semester-IV

MJC-6 (P): Organic Chemistry: Compounds with Oxygen Containing Functional Groups (P)

Course Outcomes:

When the students will finish this practical course, they will be skilled in: -

CO1: acetylation and benzoylation of various functional groups present in organic compounds.

CO2: oxime formation, hydrazone formation, semi-carbazone formation, iodoform test and in the bromination of phenols.

CO3: oxidation of alcohols and reduction of nitro compounds.

CO4: Aldol Condensation by conventional and green methods.

Compounds with Oxygen Containing Functional Groups (Practical:2 credits)
(a) Acetylation of one of the following compounds: phenols (β - naphthol, vanillin, salicylic acid) by any one method: Using conventional method/Using green approach. (b) Benzoylation of one of the following amines (aniline, *o*-, *m*-, *p*-toluidines and *o*-, *m*-, *p*-anisidine) and one of the following phenols (*β*-naphthol, resorcinol, *p*-cresol) by Schotten-Baumann reaction. (c) Preparation of Oxime and 2,4-dinitrophenylhydrazone of aldehydes and ketones (d) Oxidation of ethanol and isopropanol (Iodoform reaction). (e) Preparation of semicarbazone of the following compounds: acetone, ethyl methyl ketone, cyclohexanone, benzaldehyde. (f) Aldol condensation using either conventional or green method. (g) *S*-Benzylisothiouronium chloride from thiourea and benzyl chloride. (h) Reduction of *p*-, *m*-nitrobenzaldehyde by sodium borohydride. (i) Bromination of Phenol. (j) Hydrolysis of amides and esters.

Suggested Readings:

1. Agarwal, O. P., Advanced Practical Organic Chemistry, Krishna Prakashan, Meerut (2014).
2. Ahluwalia, V. K.; Aggarwal, R., Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis, Universities Press (2000).
3. Furniss, B. S.; Hannafold, A. J.; Smith, P. W. G.; Tatchell, A. R., Vogel's Textbook of Practical Organic Chemistry, 5th Ed., Pearson Education India (2003).
4. Clarke, H. T., A Handbook of Organic Analysis: Qualitative and Quantitative, 4th Ed., CBS Publishers India (2007).
5. Vogel, A. I., Tatchell, A. R., Furnis, B. S., Hannaford, A. J. & Smith, P. W. G., Textbook of Practical Organic Chemistry, Prentice-Hall, 5th edition, 1996.
6. Mann, F.G. & Saunders, B. C. Practical Organic Chemistry Orient-Longman, 1960.
7. Khosla, B. D.; Garg, V. C. & Gulati, A. Senior Practical Physical Chemistry. R. Chand & Co.: New Delhi(2011).

Semester-IV

MJC-7: Physical Chemistry: Phase Equilibria, Conductance and Electrochemical Cells (T)

Course Outcomes

After completion of the course, students will be able to understand: -

CO1: the degree of ionization, pH and salt hydrolysis.
CO2: the different types of Buffer solutions.
CO3: the concepts of solubility product.
CO4: the conductivity, specific conductivity, equivalent conductivity and molar conductivity, application of conductance measurement in determining various physical parameters.
CO5: the standard electrode potential of half cells and calculate the EMF of a cell using Nernst equation.
CO6: EMF measurements in determining various parameters like free energy, enthalpy, entropy, equilibrium constants, etc.
CO7: the concentration cells with and without transference.
CO8: the principle of potentiometric titrations.

MJC-7:Physical Chemistry: Ionic Equilibria, Conductance and Electrochemical Cells (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Phase Equilibria**: Phases, components and degrees of freedom of systems, criteria of phase equilibria, Gibbs Phase Rule and its thermodynamic derivation, derivation of Clausius - Clapeyron equation and its importance in phase equilibria, phase diagram of one component system (water/sulphur) and two component system involving eutectics, congruent and incongruent melting points (lead-silver, $FeCl_3$-water and Na-K only), Nernst distribution law and its thermodynamic derivation, limitations of Nernst distribution law, modification of the distribution law in cases of association and dissociation of solutes, application of the law in the process of solvent extraction.	12
2	**Conductance:** Conductance, specific conductance (conductivity), equivalent and molar conductance, their variation with dilution for weak and strong electrolytes, Kohlrausch law of independent migration of ions, transference number and its experimental determination using Hittorf and Moving Boundary Methods, ionic mobility, applications of conductance measurements, determination of degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts, ionic product of water, hydrolysis constant of a salt, conductometric titrations (only acid-base).	12
3	**Electrochemical cells** : Electrode and electrode potential, reference electrodes (Standard hydrogen electrode and Calomel	12

	electrode), standard electrode potential, type of electrodes, galvanic cells, electrochemical series and its significance, Nernst equation and its importance, types of electrochemical cells – chemical cells and concentration cells, concept of EMF of a galvanic cell, measurement of EMF of a cell, construction and working of a Galvanic cell, liquid junction potential and salt bridge, EMF of a concentration cell with and without transference.	
4	**Applications of EMF measurements** Determination of equilibrium constant, ΔG, ΔS and ΔH of cell reactions, calculation of solubility product of a sparingly soluble salt, the valency of ions, determination of pH using hydrogen electrode and quinhydrone electrode. Potentiometric titrations: qualitative treatment (acid-base and oxidation-reduction only).	12
	TOTAL	48

Suggested Readings:

1. Atkins, P. W.; de Paula, J.; Keeler, J., Physical Chemistry, 11th Ed., Oxford University Press India (2018).
2. Bahl, A.; Bahl, B. S.; Tuli, G. D., Essentials of Physical Chemistry, S. Chand and Company (2014).
3. Negi, A. S.; Anand, S. C., Physical Chemistry, New Age International Publishers (2007).
4. Puri, B. R.; Sharma, L. R.; Pathania, M. S., Principles of Physical Chemistry, 47th Ed., Vishal Publishing (2017).
5. Silbey, R. J.; Alberty, R. A.; Bawendi, M. G., Physical Chemistry, 4th Ed., Wiley India (2006).
6. Rakshit, P. C., Physical Chemistry, Revised Ed. Sarat Book House (2014).
7. Kapoor, K. L., A Textbook of Physical Chemistry: States of Matter and Ions in Solution, Vol. I, 6th Ed., McGraw Hill Education India (2019).

SEMESTER – V
MJC-8 (T): Co-ordination Chemistry (T)

Course Outcomes:

After completion of the course, students will be able to understand: -

CO1: ligand, denticity of ligands, chelates, coordination number and nomenclature coordination of compounds.

CO2: isomerism in coordination compounds.

CO3: Valence Bond Theory to predict the structure and magnetic behavior of metal complexes.

CO4: pairing energy, CFSE and its effects, high spin and low spin complexes.

CO5: magnetic properties and colour of complexes on the basis of Crystal Field Theory.

CO6: properties of transition metal complexes, variable oxidation states, colours, magnetic and catalytic properties.

Co-ordination Chemistry (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction:** Molecular or addition compounds, double salts and coordination compounds, coordination sphere, coordination number (C.N), oxidation state (O.S.) of the central metal atom/ion, ligands and their classification, chelating ligands, chelates and their stability. Werner's theory of coordination compounds, limitations of Werner's theory, effective atomic number (EAN) rule, nomenclature of coordination compounds, isomerism in coordination compounds.	12
2	**Valence bond theory:** Valence bond theory of complex compounds, different octahedral, square planar and tetrahedral complexes of Cr, Fe, Co, Ni, Cu and Zn, strength of ligands and stability of complexes, outer and inner orbital complexes. Limitations of valence bond theory (VBT).	12
3	**Crystal field theory:** Crystal field theory, crystal field splitting of d-orbitals in octahedral, tetrahedral, tetragonal and square-planar complexes, HS and LS complexes, factors affecting the crystal field splitting energy, spectrochemical series, magnetic properties of complexes, colour of the complexes, crystal field stabilization energy (CFSE) and its calculation. variation of octahedral ionic radii. Crystal structure of spinels. Jahn-Teller effect and distortion in octahedral and tetrahedral complexes, charge transfer spectra (LMCT) and (MLCT), heat of hydration, lattice energy of bivalent metal ions of transition metals.	12
4	**Magnetic properties of transition metal complexes:** Types of magnetic behaviour, methods of determination of magnetic susceptibility, L-S coupling, correlation of the magnetic moment (spin only formula) and effective magnetic moment values, quenching of orbital contribution to magnetic moment, applications of magnetic moment data for 3d series.	12
	TOTAL	48

Suggested Readings:

1. Selected Topics in Inorganic Chemistry- Malik, Madan and Tuli
2. Chemistry for degree students- R. L. Madan.
3. Inorganic Chemistry – Gary L. Miessler and Donald A.Tarr.
4. Advanced Inorganic chemistry- F.A. Coton andWilkinson.
5. Concise Inorganic Chemistry – J.D.Lee.
6. Inorganic Chemistry - P.W.Atkins.
7. Advanced Inorganic Chemistry – Kalia, Puri andSharma

Semester-V
MJC-8 (P): Co-ordination Chemistry (P)

Course outcomes

After completion of this practical course, students will be skilled in:-

CO1: preparation of complex compounds.

CO2: complexometric titrations and colorimetric analysis.

Co-ordination Chemistry (Practical: 2 credits)
Practical **1.Preparation of inorganic compounds/ complexes.** a) Preparation of potash alum [$K_2SO_4.Al_2(SO_4)_3\ 24H_2O$] b) Preparation of potassium tris(oxalato) ferrate (III), $K_3[Fe(C_2O_4)_3]$ c) Preparation of potassium tris(oxalato) chromate (III), $K_3[Cr(C_2O_4)_3]$ d) Preparation of hexammine nickel (II) chloride, $[Ni(NH_3)_6]Cl_2$. e) Preparation of tetramminecopper(II) sulphate,$[Cu(NH_3)_4]SO_4$. f) Preparation of sodium nitropruside, $Na_2[Fe(CN)_5(NO)]$. **2.Complexometric titrations and colorimetry** a) Estimation of copper sulphate/copper ion from a given solution colorimetrically. b) Estimation of phosphate ion, $(PO_4)^{3-}$ in a given sample of water/soil colorimetrically. c) Complexometric titrations by EDTA (i) Estimation of Ca^{2+}/ Mg^{2+} in the supplied sample of water. (ii) Estimation of total hardness from the supplied sample of water.

Suggested Readings:

1. Qualitative inorganic chemistry – A. I .Vogel
2. Advance practical inorganic chemistry – Gurdeep Raj

Semester-V

MJC-9 (T): Polynuclear hydrocarbons, nitrogen containing compounds, heterocyclic compounds, alkaloids and terpenoids (T)

Course Outcomes

After completion of the course, students will be able to understand:

CO1: the chemistry of polynuclear hydrocarbons.

CO2: the named reactions related to amines nitriles, isonitriles and diazo compounds.

CO3: the chemistry of some common heterocyclic compounds.

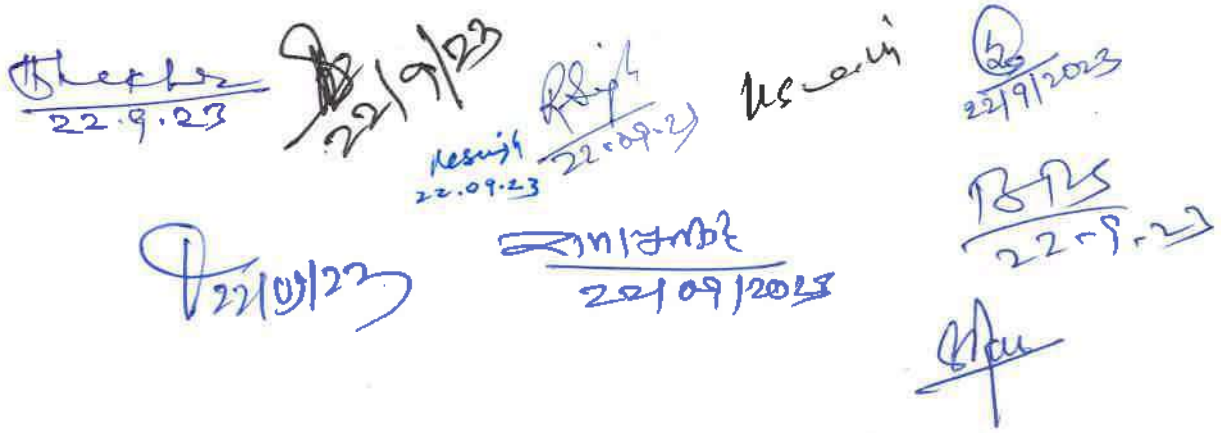
CO4: the general methods involved in structural elucidation of alkaloids and terpenoids.

Polynuclear hydrocarbons, nitrogen containing compounds, heterocyclic compounds, alkaloids and terpenoids (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Polynuclear Hydrocarbons:** Nomenclature of polynuclear hydrocarbons, preparation and properties and constitution of naphthalene, anthracene and phenanthrene.	12
2	**Nitrogen containing Compounds: Amines, Nitriles, Isocyanides and diazonium compound:** Reduction of nitro compounds under different conditions, von Richter reaction, preparation and separation of primary, secondary and tertiary amines, relative basic strength of amines, distinctions among primary, secondary and tertiary amines, preparation of diazonium salts and their synthetic applications, diazo- coupling reactions, Gomberg reaction, preparation and properties of nitriles and isonitriles.	15
3	**Heterocyclic Compounds:** Classification and nomenclature of heterocyclic compounds, aromaticity in 5- & 6-membered rings with one heteroatom, syntheses of pyrrole(Knorr-Pyrrole synthesis, Paal-Knorr synthesis, Hantzsch synthesis), Reaction synthesis and constitutions of furan, thiophene, pyridine (Hantzsch synthesis), reactions of pyrrole, furan, thiophene and pyridine. **Quinoline and isoquinoline:** Reactions, syntheses and constitution of quinoline and isoquinoline. (Skraup synthesis, Friedlander's Synthesis, Knorr Quinoline Synthesis, Bischler Napieralski Synthesis)	12
4	**Alkaloids and Terpenoids:** Natural occurrence, classification and isolation of alkaloids and terpenoids, isoprene. Isoprene and Special Isoprene rule, reactions used in general methods involved in structural elucidation of alkaloids and terpenoids.	09
	TOTAL	48

Suggested Readings:

1. Morrison R.T., Boyd R.N., (2007) Organic Chemistry, Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).
2. Finar I.L., (2014) Organic Chemistry (Volume 1), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).

3. Finar I.L., (2014) Organic Chemistry (Volume 2: Stereochemistry and the Chemistry of Natural Products), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).
4. Acheson R.M., (1976), Introduction to the Chemistry of Heterocyclic compounds, John Wiley & Sons.
5. Graham Salomons T.W., Organic Chemistry, John Wiley & Sons, Inc.
6. Kalsi P.S., (2010), Textbook of Organic Chemistry 1st Ed., New Age International (P) Ltd. Pub.



Semester-VI

MJC-10 (T): Colligative Properties of Dilute Solutions, Chemical Kinetics and Photochemistry (T)

Course Outcomes

After completion of the course, studentswill be able to understand:-

CO1: Colligative properties of dilute solutions and determination of these properties.

CO2: Abnormal colligative properties and molar mass.

CO3: Azeotropes, maximum and minimum boiling azeotropic mixture.

CO4: Kinetics of simple and complex reactions.

CO5: Jablonski diagram and laws of photochemistry.

Colligative Properties of Dilute Solutions, Chemical Kinetics and Photochemistry (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1.	**Colligative Properties of Dilute Solutions:** Colligative properties of solutions, Henry's law, Raoult's law (thermodynamic derivation), ideal and non-ideal solutions, azeotropes, thermodynamic derivation and experimental determination of relative lowering in vapour pressure, elevation in boiling point, depression in freezing point and osmotic pressure, abnormal colligative properties due to association and dissociation of solutes in solutions, van't Hoff's factor, abnormal molar mass, applications of colligative properties in determining molar mass of solutes, degree of dissociation and association.	15
2.	**Kinetics of Elementary Reactions:** Rate laws of first, second, third and zero order reactions, methods of determination of order of reactions, temperature dependance of reaction rate, Arrhenius equation, Activation energy, Collision theory and transition state theory of reaction rates. **Catalysis:** Theory and applications.	12
3.	**Kinetics of Complex Reactions:** Steady state approximation, integrated rate expression (first order only) for the 1. Opposing reactions 2. Parallel reactions and 3. Consecutive reactions.	12
4.	**Photochemistry:** Introduction, consequences of light absorption, Lambert-Beer's law, laws of photochemistry, Grotthus-Draper law, Stark-Einstein law of photochemical equivalence, quantum yield, photochemical reactions ($H_2 + Cl_2$, $H_2 + Br_2$, decomposition of HI), photochemical rate laws, energy transfer in photochemical reactions, Jablonski diagram, photosensitization, fluorescence, phosphorescence and chemiluminescence.	09
	TOTAL	48

Suggested Readings:

1. Physical Chemistry: P.W. Atkins (ELBS)
2. Comprehensive Physical Chemistry: Hemant Snehi
3. Theoretical Physical Chemistry: Gladstone

4. Physical Chemistry: G.M. Barrow.
5. Modern Electrochemistry: JOM Bakris and A.K.N. Reddy
6. Text Books of Polymer Science: F.W. Billmayer Jr.
7. Advanced Physical Chemistry: Gurdeep Raj

Semester-VI
MJC-10 (P): Physical Chemistry: Colligative Properties of Dilute Solutions and Chemical Kinetics (P)

Course Outcomes

After completion of this practical course, students will be skilled in:

CO1: determination of molecular mass by elevation in boiling point and depression in freezing point methods.

CO2: determination of the velocity constants of hydrolysis of esters and inversion of cane sugar.

Properties of Dilute Solutions and Chemical Kinetics (Practical: 2 credits)
Practical: **Solutions:** 1. Determination the molecular weight of non-volatile solute by Landsberger's method. 2. Determination of molecular mass of non-volatile solutes by Beckmann method. **Chemical Kinetics:** 1. Determination of the rate constant of hydrolysis of ethyl/methyl acetate catalyzed by HCl. 2. Determination of the rate constant of inversion of cane sugar. 3. Determination of the rate constant of hydrolysis of ethyl/methyl acetate with NaOH (saponification).

Suggested Readings:

1. Khosla, B. D.; Garg, V. C. & Gulati, A., *Senior Practical Physical Chemistry*, R. Chand & Co.: New Delhi (2011).
2. Athawale, V. D. & Mathur, P. *Experimental Physical Chemistry* New Age International: New Delhi (2001).

SEMESTER – VI

MJC-11: Organic Chemistry: Biomolecules (T)

Course Outcomes

After completion of the course, students will be able to understand the:

CO1: genetic materials involved in living biosystems.

CO2: physicochemical properties of amino acids, peptides and proteins.

CO3: enzymes and their activity as well as some basic idea about lipids.

CO4: basics of energetics in biosystems and introduction to some synthetic and naturally occurring pharmaceuticals.

Biomolecules (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Amino Acids, Peptides and Proteins:** Classification of α-Amino Acids, General methods of synthesis, ionic properties and reactions, Zwitterions, pK_a values, isoelectric point and electrophoresis, study of peptides: Oligo and polypeptides, features of peptide bonds, syntheses of peptides using *N*-protecting, *C*-protecting and *C*-activating groups, solid-phase synthesis,elementary idea of primary, secondary, tertiary and quaternary structures of proteins.	10
3	**Nucleic Acids:** Components of nucleic acids, nucleosides and nucleotides, Structure and syntheses of Adenine, Guanine, Cytosine, Uracil and Thymine, structure of polynucleotides and DNA double helix.	10
2	**Enzymes and Lipids:** Introduction, classification and characteristics of enzymes, mechanism of enzyme action (taking trypsin as example), factors affecting enzyme action specificity of enzyme action, enzyme inhibitors and their importance, phenomenon of inhibition (competitive, uncompetitive and non-competitive inhibition), Introduction to oils and fats, classification of lipids, phospholipids, hydrogenation and iodine number, saponification value.	10
4	**Concept of energy in Biosystems and Pharmaceutical compounds:** Role of ATP in glycolysis during phosphorylation of glucose, conversion of glucose-6-phosphate to fructose-6-phosphate, phosphorylation of fructose-6-phosphate, cleavage of fructose-1,6-biphosphate, oxidation of glyceraldehyde-3-phosphate to 1,3-biphosphoglycerate, phosphoryl transfer from biphosphate to ADP, Conversion of 3-phosphoglycerate to 2-phosphoglycerate, dehydration of 2-phosphoglycerate, transfer of the phosphoryl group from phosphonyl pyruvate to ADP and overall energy balance sheet for ATP. Structure, syntheses and therapeutic uses of aspirin, paracetamol, and ibuprofen, medicinal values of curcumin (haldi), azadirachtin (neem) and vitamin C.	18
	TOTAL	48

Suggested Readings:

1. Berg, J.M., Tymoczko, J.L. and Stryer, L. (2006) Biochemistry. VIth Edition. W.H. Freeman and Co.
2. Nelson, D.L., Cox, M.M. and Lehninger, A.L. (2009) Principles of Biochemistry. IV Edition. W.H. Freeman and Co.
3. Murray, R.K., Granner, D.K., Mayes, P.A. and Rodwell, V.W. (2009) Harper's Illustrated Biochemistry. XXVIII edition. Lange Medical Books/ McGraw-Hill.

Semester-VI
MJC-11: Organic Chemistry: Biomolecules (P)

After completion of this practical course, students will be skilled in: -
CO1: tests of amino acids and proteins.
CO2: experiments related to enzymes, oils and fats.

Biomolecules (Practical: 2 credits)
Practical: **Tests of amino acids and proteins:** 1. Estimation of glycine by Sorenson's formalin method. 2. Study of the titration curve of glycine. 3. Test of proteins. **Experiments related to enzymes, oils and fats:** 1. Study of the action of salivary amylase on starch at optimum conditions. 2. Effect of temperature on the action of salivary amylase. 3. Saponification value of an oil or a fat. 4. Determination of Iodine number of an oil/ fat. **Experiment related to pharmaceutical compounds** 1. Synthesis of salicylic acid and aspirin.

Suggested Readings:

1. Manual of Biochemistry Workshop, 2012, Department of Chemistry, Universityof Delhi.
2. Arthur, I. V. *Quantitative Organic Analysis*, Pearson.
3. Any other laboratory manual available in departmental library as advised by the instructor.

Semester-VI
MJC-12 (T): Physical Chemistry: Quantum Chemistry &Spectroscopy (T)

Course Outcomes

After completion of the course, students will be able to understand:

CO1: the postulates of quantum mechanics, Schrödinger's wave equation and its applications

CO2: the concepts related to electronic and rotational spectra.

CO3: the concepts related to vibrational and Raman spectra.

Quantum Chemistry & Spectroscopy (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Elementary Quantum Mechanics:** Postulates of Quantum Mechanics, quantum mechanical operators, properties of operator, Hermitian operator, Schrödinger wave equation and its importance, physical interpretation of wave function, probability distribution function, nodal properties, particle in one dimensional box, particle in three dimensionalbox, concept of degeneracy and zero point energy, Schrödinger wave equation for hydrogen atom, separation of variables, hydrogen like wave functions.	12
2	**Valence Bond Theory and Molecular Orbital Theory:** Basic ideas of VBT and MOT, valence bond model of H_2, construction of MO's by LCAO for H_2^+ ion, physical picture of bonding and antibonding wave functions, concept of σ, σ^*, π, π^* non-bonding orbitals, comparison between VBT and MOT. Hybrid orbitals *sp*, sp^2 and sp^3 and calculation of coefficients of atomic orbitals used in these hybrid orbitals.	12
3	**Rotational and Electronic Spectra:** Electromagnetic radiation, Energy levels of a rigid rotor, selection rules, intensity of spectral lines using population distribution and degeneracy, effect of isotopic substitution, determination of bond length and atomic mass from rotational spectra,description of non-rigid rotor, Franck-Condon principle and intensity of spectral lines, pre-dissociation and dissociation, calculation of bond dissociation energy, electronic transitions, singlet and triplet states, concept of potential energy curves for bonding and anti-bonding molecular orbitals.	12
4	**Vibrational and Raman Spectroscopy** Energy levels of simple harmonic oscillator, selection rules, pure vibrational spectrum, determination of force constant and bond length, relation of force constants with bond energy, effect of anharmonic motion, idea of vibrational frequencies of different functional groups, overtones, combination bands and Fermi resonance, modes of vibration, vibrational-rotational spectrum, P, Q and R branches, Raman spectrum : concept of polarizability, vibrational Raman spectra, Stokes and anti-Stokes lines, their relative intensity, principle of mutual exclusion.	12
	TOTAL	48

Suggested Readings:

1. Banwell C. N., Mc Cash E. M., (2006). Fundamentals of Molecular Spectroscopy 4th Ed. Tata McGraw-Hill: New Delhi.
2. Chandra A. K., (2001). Introductory Quantum Chemistry Tata McGraw-Hill.
3. House J. E., (2004). Fundamentals of Quantum Chemistry 2nd Ed. Elsevier: USA.
4. Lowe J. P., Peterson K., (2005). Quantum Chemistry, Academic Press.
5. Kakkar R., (2015). Atomic & Molecular Spectroscopy, Cambridge University Press.

SEMESTER – VII

MJC-13: Inorganic Chemistry: Organometallic Chemistry, Symmetry and Group theory (T)

Course Outcomes

After completion of the course, students will be able to understand the:

CO1: nomenclature and classification of Organometallic compounds.
CO2: properties of metal carbonyls including their structures.
CO3: methods of preparation of Organometallics.
CO4: concept of symmetry and group theory.

Organometallic Chemistry (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** Definition, nomenclature and classification of organometallic compounds,concept of hapticity, classification, preparation, properties and bonding of metal carbonyls, EAN rule and 18-electron rule applied to metal carbonyls, π-acceptor behaviour of CO, synergic effect, use of IR spectra in determining structure of metal carbonyls, structure of mono-, bi- and poly-nuclear metal carbonyls.	12
2	**σ- complexes** Preparation, properties, bonding and applications of Alkyls and aryls of Li, Al, Hg, Sn and Ti. Concept of multicentred bonding.	12
3	**π-Complexes** A brief account of metal-ethylene and Metal-acetylene complexes. **Zeise's salt:** Preparation, properties, bonding and synergic effect. **Ferrocene:** Preparation, reactions, structure and aromaticity, comparison of aromaticity and reactivity with that of benzene.	12
4	**Symmetry and Group Theory** Concept of symmetry, symmetry elements and symmetry operations, point groups, determination of point groups of simple molecules. Multiplication table of C_{2v} and C_{3v} point groups, group, characteristics of a group and subgroups.	12
	TOTAL	48

Suggested Readings:

1. Organometallic Chemistry: Gurdeep Chatwal and M. S. Yadav – Himalaya Publishing House.
2. Selected Topics in Inorganic Chemistry, by Dr. Wahid U. Malik, Dr. G. D. Tuli and Dr. R. D. Madan, S. Chand Publication.
3. Organometallic Chemistry – R. C. Mehrotra and A. Singh – New Age International Publication.
4. Chemistry for Degree Students – B. Sc. Third Year – by Dr. R. D. Madan- S Chand Publication.

5. General Inorganic Chemistry (Vol-II) – by Bidhan Chandra Roy and Satyanarayan Das – NCBA
6. Miessler, G.; Tarr, D. A., Inorganic Chemistry, 3rd Ed., Pearson Education India
7. Cotton F. A. Chemical applications of group theory, 3rd Ed. Interscience (Wiley), New York,
8. Gurdeep Raj, Group Theory & Symmetry in Chemistry, Krishna Prakashan Media.

Semester-VII
MJC-15: Organic Chemistry: Spectroscopy (T)

Course Outcomes

After completion of the course, students will be able to understand: -

CO1: different types of electronic transitions in organic molecules.

CO2: the principles related to ultraviolet spectroscopy.

CO3: different types of vibrations in organic molecules and the principles related to infrared spectroscopy.

CO4: the nuclear spin, shielding and deshielding effects and the principles of NMR

CO5: the principles of ESR spectroscopy.

Organic Spectroscopy (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Ultraviolet (UV)Absorption Spectroscopy:** Origin and spectrum of electromagnetic radiations, absorption and emission spectra, Lambert- Beer's law, types of electronic transitions, molar absorption coefficient, selection rules, recording and analysis of UV spectra, chromophore, auxochrome, bathochromic-, hypsochromic-, hyperchromic- and hypochromic-shifts, Woodward-Fieser rules for calculating $\lambda_{max.}$, UV spectra of conjugated enes and enones.	12
2	**Infrared (IR)Absorption Spectroscopy:** Degree of freedom, Hooke's law, different types of bond vibrations in organic molecules, IR, near IR and far IR regions, selection rules for IR spectroscopy, functional group characteristic vibrations in IR, fingerprint region, factors affecting the position and intensity of IR bands, recording of IR spectra, interpretation of IR spectra of simple organic molecules.	12
3	**Nuclear Magnetic Resonance (NMR) Spectroscopy:** Principle of Nuclear magnetic resonance (^{1}H-NMR) spectroscopy, shielding and deshielding effects, chemical shift, splitting of signals, spin-spin coupling and coupling constant, number, position, area and intensity of NMR signals, interpretation of NMR spectra of simple organic molecules.	12
4.	**Electron Spin Resonance (ESR) Spectroscopy:** Introduction, principle of ESR spectroscopy, types of species taken for investigation through ESR, relaxation processes, spin-lattice relaxation, spin-spin relaxation, effect of relaxation time on line width, presentation of ESR spectra, the g–factor, hyperfine structure (electron spin and nuclear spin coupling), number and intensity of lines, ESR spectra of some simple species ($H^{\cdot}$, $CH_3^{\cdot}$, $C_2H_5^{\cdot}$, $C_6H_6^{\cdot-}$), Applications of ESR spectroscopy.	12
	TOTAL	48

Suggested Readings:

1. Organic Chemistry –Morrison and Boyd
2. Organic spectroscopy: Y.R. Sharma.
3. Organic spectroscopy -William Kemp (MacMillan)
4. Spectroscopy of Organic Compounds – P.S. Kalsi.
5. Physical methods in inorganic chemistry – Russell S. Drago.

Semester-VIII
MJC-16(T): Analytical Methods in Chemistry (T)

Course Outcomes

After completion of the course, students will be able to: -

CO1: understand accuracy and precision.
CO2: develop methods of analysis for different samples independently.
CO3: test contaminated water samples.
CO4: understand basic principle of instrument like Flame Photometer, UV-vis spectrophotometer.
CO5: learn separation of analytes by chromatography.
CO6: apply knowledge of geometrical isomers and keto-enol tautomers to analysis.
CO7: determine composition of soil.
CO8: estimate macronutrients using Flame photometry.

MJC-16 (T): Analytical Methods in Chemistry (Theory:4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Qualitative and Quantitative Aspects of Analysis:** Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. Normal law of distribution of indeterminate errors, statistical test of data, F, Q and t test, rejection of data, and confidence intervals.	12
2	**Optical Methods of Analysis:** **UV-Visible Spectrophotometry:** Basic principle of instrumentation (choice of source, monochromator and detector) for single and double beam instrument, Transmittance. Absorbance. Basic principles of quantitative analysis: Estimation of metal ions from aqueous solution, geometrical isomers, keto-enol tautomers. **Flame Atomic Absorption and Emission Spectrometry:** Basic principles of instrumentation (choice of source, monochromator, detector, choice of flame and Burner designs). Techniques of atomization and sample introduction; Method of background correction, sources of chemical interferences and their method of removal, Techniques for the quantitative estimation of trace level of metal ions from water samples.	12
3	**Thermal Methods of Analysis:** Theory of thermogravimetry (TG) and basic principle of instrumentation of thermal analyser. Techniques for quantitative estimation of Ca and Mg from their mixture.	12
4	**Chromatography:** Classification, principle and efficiency of the technique, Mechanism of separation: adsorption, partition & ion-exchange, Development of chromatograms: frontal, elution and displacement methods.	12
	TOTAL	48

Suggested Readings:

1. Willard, H.H. (1988), Instrumental Methods of Analysis, 7th Edition, Wardsworth Publishing Company.
2. Christian, G.D. (2004), Analytical Chemistry, 6th Edition, John Wiley & Sons, New York.
3. Harris, D. C. (2007), Quantitative Chemical Analysis, 6th Edition, Freeman.
4. Khopkar, S.M. (2008), Basic Concepts of Analytical Chemistry, New Age International Publisher.
5. Skoog, D.A.; Holler F. J.; Nieman, T.A. (2005), Principles of Instrumental Analysis, Thomson Asia Pvt. Ltd.

Course Structure

Chemistry

(B) Minor Courses to be offered by the department for students of other departments of science

Sem	Type of Course	Name of Course	Credits	Marks
I	MIC-1 (T)	Inorganic Chemistry I: Atomic Structure & Chemical Bonding	2	100
	MIC-1 (P)	Inorganic Chemistry Lab: volumetric analysis Organic Lab: detection, purification and separation of organic compounds	1	
II	MIC-2 (T)	Physical Chemistry: States of Matter & Ionic Equilibrium (T)	2	100
	MIC-2 (P)	Physical Chemistry: Determination of surfaces surface tension, viscosity and molecular weight (P)	1	100
III	MIC-3 (T)	Organic Chemistry: Hydrocarbons & Chemistry in everyday life.	3	100
IV	MIC-4 (T)	Chemical Thermodynamics and its Applications (T)	3	100
V	MIC-5 (P)	Chemical Thermodynamics and its Applications (P)	3	100
	MIC-6 (T)	*s*-, *p*- and d-block elements (T)	3	100
VI	MIC-7 (P)	Qualitative Analysis of Inorganic Salt Mixture Containing Four Radicals (P)	3	100
	MIC-8 (T)	Compounds with Oxygen Containing Functional Groups (T)	3	100
VII	MIC-9 (P)	Identification of Oxygen Containing Functional Groups (P)	2	100
	MIC-9 (T)	Colligative Properties of Dilute Solutions, Chemical Kinetics and Photochemistry	2	100
VIII	MIC-10 (T)	Physical chemistry: Phase Equilibria and Electrochemical cells	4	100
		Sub Total	**32**	

SEMESTER-III

MIC-3(T) : Hydrocarbons & Chemistry in everyday life

Course outcomes:

After completion of this course, student will be able to understand:

CO1: Chemistry of hydrocarbons.

CO2: applications of Chemistry in everyday life.

MIC-3(T) : Hydrocarbons & Chemistry in everyday life (Theory: 3 credits)		
Unit	**Name of Course**	**No. of Lectures**
	Aliphatic Hydrocarbons Functional group approach for the following reactions (preparations & reactions) to be studied in context to their structure.	
1	**Alkanes:** (Upto 5 Carbons): Preparation: Catalytic hydrogenation, Wurtz reaction, Kolbe's synthesis, from Grignard reagent. Reactions: Free radical Substitution: Halogenation.	11
2	**Alkenes:** (Upto 5 Carbons): Preparation: Elimination reaction, dehydration of alkenes and dehydrohalogenation of alkyl halides (Saytzeff's rule); cis Reactions: cis-addition (alk. $KMnO_4$) and trans-addition (bromine), Addition of HX (Markownikoff's and anti-Markownikoff's addition), Hydration, Ozonolysis, oxymecuration-demercuration, Hydroboration-oxidation,.	11
3	**Alkynes:** (Up to 5 Carbons): Preparation: Acetylene from CaC_2 and conversion into higher alkynes; by dehalogenation of tetra halides and dehydrohalogenation of vicinal-dihalides. Reactions: formation of metal acetylides, addition of bromine and alkaline $KMnO_4$, ozonolysis and oxidation with hot alk, $KMnO_4$.	11
4	**Chemistry in everyday life:** Air Pollution, Water Pollution, Toxic Chemicals, Inorganic and Organic Chemicals in soil, Important Fertilizers Green Chemistry, essential constituents in foods, Important drugs food preservatives	12
	TOTAL	45

Suggested Readings:

1. Organic Chemistry-Graham Solomons
2. Organic Chemistry- Morrison & Boyd.

22/9/23 22.09.23 22.09.23 22.9.23 22/9/2023 22/09/2023 22/09/2023

Semester-IV
MIC-4: Physical Chemistry: Chemical Thermodynamics and its Applications (T)

Course Outcomes

After completion of the course, students will be able to understand:

CO1: various thermodynamic terms.

CO2: various enthalpies of transformations and Kirchoff's law.

CO3: entropy changes, Gibbs free energy change, spontaneous and non- spontaneous processes.

CO4: second law of thermodynamics.

MJC-4: Physical Chemistry: Chemical Thermodynamics and its Applications (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
I	**Basic concepts and first law of thermodynamics:** Definition of thermodynamic terms: system, surroundings, types of systems, intensive and extensive properties, state and path functions, thermodynamic processes, concept of heat and work, First law of Thermodynamics-Statements, definition of internal energy and enthalpy, Heat capacities at constant volume and constant pressure with their relationship, Joule's law, Joule-Thomson coefficient and inversion temperature, calculation of w, q, dU & dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible and irreversible processes.	12
2	**Thermochemistry:** Standard state, enthalpy of reaction, standard enthalpy of formation, Hess's law of constant heat summation and its applications, enthalpy of combustion, enthalpy of neutralization, bond dissociation energy and its calculation from thermo-chemical data, temperature dependence of enthalpy, Kirchoff's equation.	11
3	**Second law of thermodynamics:** Second law of thermodynamics, need of the law, different statements of the law, Carnot theorem, Carnot cycle and its efficiency.	11
4	**Entropy and free energy:** Concept of entropy, entropy as a function of V&T, P&T, entropy change in ideal gases and mixing of ideal gases, free energy and spontaneity, variation of Gibbs free energy (G) and Helmholtz free energy(A) with P, V and T.	11
	TOTAL	45

Suggested Readings:

1. Peter, A. & Paula, J. de., Physical Chemistry 9th Ed., Oxford University Press (2011).
2. Castellan, G. W. Physical Chemistry 4th Ed., Narosa (2004).
3. Engel, T. & Reid, P. Physical Chemistry 3rd Ed., Prentice-Hall (2012).

4. McQuarrie, D. A. & Simon, J. D. Molecular Thermodynamics Viva Books Pvt. Ltd.: New Delhi (2004).
5. Assael, M. J.; Goodwin, A. R. H.; Stamatoudis, M.; Wakeham, W. A. &Will, S. Commonly Asked Questions in Thermodynamics. CRC Press: NY (2011).
6. Levine, I.N. Physical Chemistry 6th Ed., Tata Mc Graw Hill (2010).
7. Metz, C.R. 2000 solved problems in chemistry, Schaum Series (2006).

Semester-V

MIC-5 (P): Chemical Thermodynamics and its Applications (P)

Course Outcomes

After completion of this practical course, students will be skilled in determining:

CO1: different types of enthalpy changes.

CO2: the heat capacity of calorimeter.

MIC-5: Chemical Thermodynamics and its Applications (Practical: 3 credits)
Practical: **Chemical Thermodynamics and its Applications** 1. Determination of water equivalent of calorimeter. 2. Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide. 3. Determination of enthalpy of ionization of ethanoic acid. 4. Determination of heat of displacement of Cu by Zn from Cu^{2+} salt solution. 5. Determination of enthalpy of hydration of copper sulphate.

Suggested Readings:

1. Khosla, B. D.; Garg, V. C. & Gulati, A., Senior Practical Physical Chemistry, R. Chand & Co., New Delhi (2011).
2. Athawale, V. D. & Mathur, P. Experimental Physical Chemistry, New Age International, New Delhi (2001).

SEMESTER – V

MIC-6 (T): Inorganic Chemistry: *s*-, *p*- and d-block elements (T)

Course Outcomes

After completion of the course, the students will be able to understand: -

CO1: different oxidation states of elements with their relative stability and complex forming properties.

CO2: the ring, cage and polymers of B, Si & P.

CO3: to carry out the preparation of inorganic compounds.

CO4: the important properties of transition metals such as their oxidation states, colour, magnetic and spectral, use of Latimer diagrams in identifying oxidizing, reducing and disproportionating species.

CO5: the concepts related with noble gases, their compounds, shapes, properties and applications.

***s*-, *p*- and *d*-block elements (Theory: 3 credits)**		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Periodic Table and Periodicity of Elements:** The long form of periodic table, detailed discussion of the following periodic properties of the elements a) Atomic radii (covalent, metallic and van der Waals) b) Ionization enthalpy, successive ionization enthalpies, factors affecting ionization enthalpy and applications of ionization enthalpy. c) Electron gain enthalpy. d) Electronegativity: Pauling's and Mullikan, variations of electronegativity with bond order and partial charge. General electronic configuration of *s*- and *p*- block elements, inert pair effect, relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group, allotropy and catenation properties.	14
2	**Compounds of *p* block elements:** Study of the following compounds with emphasis on structure, bonding, preparation, properties and uses:- Boric acid, borates, borazines, silicates, silicones, NH_3-manufacture (Haber's process), oxides, oxy- and peroxy acids of nitrogen, phosphorus and sulphur.	11
3	**Chemistry of noble gases:** Occurrence and isolation, rationalization of inertness of noble gases, shape and structure of noble gas compounds using VSEPR theory, preparation and properties of XeF_2, XeF_4 and XeF_6.	8
4	**Chemistry of d-block elements:** General electronic configuration of d-block metals and their group trends, variable oxidation states and their relative stabilities, magnetic and catalytic properties of metals, colour, complex forming ability of metals, Chemistry of Cr, Mn and Fe in various oxidation states with special reference to their following compounds: peroxo compounds of Cr, potassium dichromate, potassium permanganate..	12
	TOTAL	45

Readings:

1. Lee, J. D., Concise Inorganic Chemistry, 5th Ed., Wiley India (2008).
2. Housecroft, C. E.; Constable, E. C. Chemistry-An Introduction to Organic, Inorganic and Physical Chemistry, 4th Ed., Pearson Education (2010).
3. Atkins, P.; Overton, T.; Rouke, J.; Weller, M.; Armstrong, F.; Hagerman, M., Shriver Atkins's Inorganic Chemistry, 6th Ed., Oxford University Press India (2015).
4. Miessler, G.; Tarr, D. A., Inorganic Chemistry, 3rd Ed., Pearson Education India (2008).
5. Huheey, J. E.; Keiter, E. A.; Keiter, R. L.; Medhi, O. K., Inorganic Chemistry: Principles of Structures and Reactivity, 4th Ed., Pearson Education India (2006).
6. Cotton, F. A.; Wilkinson, G.; Gaus, P. L., Basic Inorganic Chemistry, 3rd Ed., Wiley India (2007).
7. Puri, B. R.; Sharma, L. R.; Kalia, K. C., Principles of Inorganic Chemistry, 33rd Ed., Vishal Publishing (2017).

Semester-VI

MIC-7 (P): Qualitative Analysis of Inorganic Salt Mixture Containing Four Radicals (P)

Course Outcomes

After the end of this practical course students will be skilled in: -

CO1: identification of basic radicals from known and unknown salts.

CO2: identification of acid radicals from known and unknown salts.

Qualitative Analysis of inorganic salt mixture containing Four Radicals. **(Practical 3 credits)**
1. Identification of known cations (basic radicals) and anions (acid radicals) from the supplied salt. 2. Identification of cation (basic radicals) and anions (acid radicals) from unknown salt. 3. Identification of cation (basic radicals) and anions (acid radicals) from binary mixture of inorganic salts.

SuggestedReadings:

1. Raj, G., Advanced Practical Inorganic Chemistry, Krishna Prakashan, Meerut (2013).
2. Mendham, J.; Denney, R. C., Barnes, J. D.; Thomas, M.; Sivasankar, B., Vogel's Quantitative Chemical Analysis, 6th Ed., Pearson Education India (2009).

Semester-VI

MIC-8 (T): Organic Chemistry: Compounds with Oxygen Containing Functional Groups (T)

CourseOutcomes

After the completion of the course, students will be able to understand:

CO1: preparation, properties and reactions of compounds with oxygen containing functional groups.

CO2: to draw plausible mechanisms for reactions involving these functional groups.

CO3: the knowledge of various named organic reactions associated with these functional groups.

CO4: chemistry of epoxides.

CO5: the detection of *O*-containing functional groups like alcohols, phenols, carbonyl and carboxylic acid groups.

CO6: the preparation of various organic compounds by functional group transformations and other common organic reactions.

CO7: the green practices in Organic syntheses.

Compounds with Oxygen Containing Functional Groups (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Alcohols, Phenols, Ethers and Epoxides** **Alcohols:** Classification and nomenclature. Preparation of 1°, $2^{o}$and 3°alcohols using substitution reaction, addition reactions, Grignard reagent. **Reactions:** With sodium, HX (Lucas test), esterification, oxidation (with PCC, alk. $KMnO_4$, acidic dichromate, conc. HNO_3). Oppeneauer oxidation. **Phenols:** Classification, nomenclature and properties **Preparation:** Cumene hydroperoxide method, from diazonium salts. **Reactions:** Electrophilic substitution: Nitration, halogenation and sulphonation. Kolbe's–Schmidt Reaction, Reimer-Tiemann Reaction, Gattermann-Koch Reaction, Schotten–Baumann Reaction. **Ethers and epoxides (aliphatic and aromatic):** Classification, nomenclature, preparation and properties. **Reactions:** Cleavage of ethers with HI. Syntheses of epoxides, Acid and base–catalyzed ring opening of epoxides.	17
2	**Aldehydes and ketones (aliphatic and aromatic):** Structure, reactivity and preparation; nucleophilic additions, Nucleophilic addition-elimination reactions with ammonia derivatives and their mechanisms; mechanisms of Aldol and Benzoin condensation, Knoevenagel condensations, Claisen-Schmidt, Perkin, Cannizzaro and Wittig reactions, haloform reaction and Baeyer Villiger oxidation, oxidations and reductions (Clemmensen, Wolff-Kishner, $LiAlH_4$, $NaBH_4$, MPV and PDC).	10

	Addition reactions of unsaturated carbonyl compounds: Michael addition.	
3	**Carboxylic Acids and their Derivatives:** Preparation, physical properties and reactions of monocarboxylic acids. Preparation and reactions of acid chlorides, anhydrides, esters and amides; Mechanism of acidic and alkaline hydrolysis of esters, Claisen condensation, Dieckmann and Reformatsky reactions, Hofmann bromamide degradation and Curtius rearrangement.	09
4	**Carbohydrates** Classification and general properties of carbohydrates, Glucose and Fructose (open chain and cyclic structure), Mutarotation, ascending and descending in monosaccharides.	09
	TOTAL	45

Suggested Readings:

1. Greeves, N.; Clayden, J.; Warren, S., Organic Chemistry, 2nd Ed., Oxford University, Press India (2014).
2. Sykes, P., A Guide book to Mechanism in Organic Chemistry, 6th Ed., Pearson Education India (2003)
3. Ghosh, S. K., Advanced General Organic Chemistry, Part-I & Part-II, 3rd Ed., New Central Book Agency (2010).
4. Bhal, B. S.; Bhal, A., A Textbook of Organic Chemistry, 22nd Ed., S. Chand and Company (2016).
5. Sengupta, S., Basic Stereochemistry of Organic Molecules, 2ndEd., Oxford University Press India (2018).
6. Finar, I. L. Organic Chemistry (Volume1), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).

Semester-VII

MIC-9 (P): Organic Chemistry: Identification of Oxygen Containing Functional Groups (P)

Course Outcomes:

When the students will finish this practical course, they will be skilled in: -

CO1: acetylation and benzoylation of various functional groups present in organic compounds.

CO2: oxime formation, hydrazone formation, semi-carbazone formation, iodoform test and in the bromination of phenols.

CO3: oxidation of alcohols and reduction of nitro compounds.

CO4: Aldol Condensation by conventional and green methods.

Compounds with Oxygen Containing Functional Groups (Practical: 2 credits)
(a) Acetylation of salicylic acid. (b) Benzolyation of aniline. (c) Preparation of Oximes and 2,4-dinitrophenylhydrazones of aldehydes and ketones (d) Bromination of Phenol.

Suggested Readings:

1. Agarwal, O. P., Advanced Practical Organic Chemistry, Krishna Prakashan, Meerut (2014).
2. Ahluwalia, V. K.; Aggarwal, R., Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis, Universities Press (2000).
3. Furniss, B. S.; Hannafold, A. J.; Smith, P. W. G.; Tatchell, A. R., Vogel's Textbook of Practical Organic Chemistry, 5th Ed., Pearson Education India (2003).
4. Clarke, H. T., A Handbook of Organic Analysis: Qualitative and Quantitative, 4th Ed., CBS Publishers India (2007).
5. Vogel, A. I., Tatchell, A. R., Furnis, B. S., Hannaford, A. J. & Smith, P. W. G., Textbook of Practical Organic Chemistry, Prentice-Hall, 5th edition, 1996.
6. Mann, F.G. & Saunders, B. C. Practical Organic Chemistry Orient-Longman, 1960.
7. Khosla, B. D.; Garg, V. C. & Gulati, A. Senior Practical Physical Chemistry, R. Chand & Co.: New Delhi(2011).

Semester-VII

MIC-9 (T): Colligative Properties of Dilute Solutions, Chemical Kinetics and Photochemistry (T)

Course Outcomes

After completion of the course, students will be able to understand:-

CO1: Colligative properties of dilute solutions and determination of these properties.

CO2: Abnormal colligative properties and molar mass.

CO3: Azeotropes, maximum and minimum boiling azeotropic mixture.

CO4: Kinetics of simple and complex reactions.

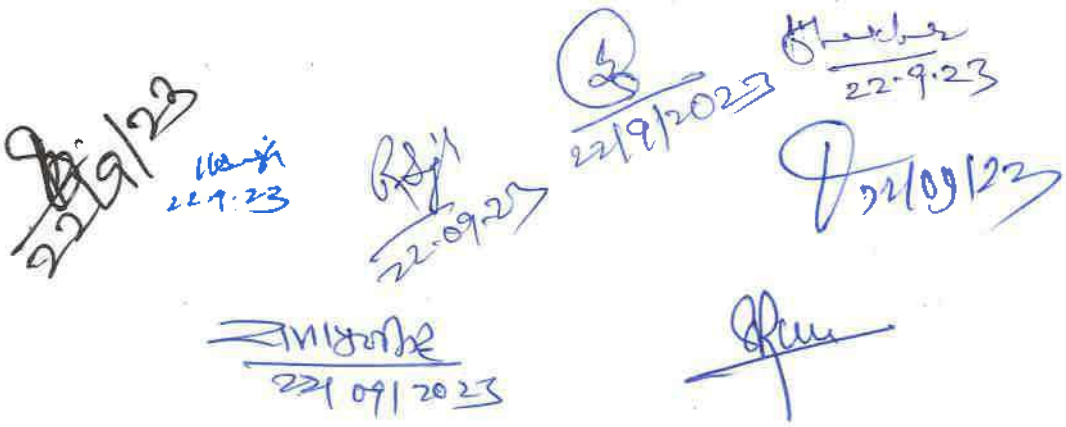
CO5: Jablonski diagram and laws of photochemistry.

Colligative Properties of Dilute Solutions, Chemical Kinetics and Photochemistry (Theory: 2 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1.	**Colligative Properties of Dilute Solutions:** Colligative properties of solutions, Henry's law, Raoult's law (thermodynamic derivation), ideal and non-ideal solutions, azeotropes, thermodynamic derivation and experimental determination of relative lowering in vapour pressure, elevation in boiling point, depression in freezing point and osmotic pressure, abnormal colligative properties due to association and dissociation of solutes in solutions, van't Hoff's factor, abnormal molar mass, applications of colligative properties in determining molar mass of solutes, degree of dissociation and association.	8
2.	**Kinetics of Elementary Reactions:** Rate laws of first, second, third and zero order reactions, methods of determination of order of reactions, temperature dependance of reaction rate, Arrhenius equation, Activation energy, **Catalysis:** Theory and applications.	8
3.	**Kinetics of Complex Reactions:** Steady state approximation, integrated rate expression (first order only) for the 1. Opposing reactions 2. Parallel reactions and 3. Consecutive reactions.	7
4.	**Photochemistry:** Introduction, consequences of light absorption, Lambert-Beer's law, laws of photochemistry, Grotthus-Draper law, Stark-Einstein law of photochemical equivalence, quantum yield, photochemical reactions ($H_2 + Cl_2$, $H_2 + Br_2$, decomposition of HI), photochemical rate laws.	7
	TOTAL	30

Suggested Readings:

1. Physical Chemistry: P.W. Atkins (ELBS)
2. Comprehensive Physical Chemistry: Hemant Snehi
3. Theoretical Physical Chemistry: Gladstone
4. Physical Chemistry: G.M. Barrow.
5. Modern Electrochemistry: JOM Bakris and A.K.N. Reddy

6. Text Books of Polymer Science: F.W. Billmayer Jr.
7. Advanced Physical Chemistry: Gurdeep Raj



Semester-VIII

MIC-10: Physical Chemistry: Phase Equilibria, Conductance and Electrochemical Cells (T)

Course Outcomes

After completion of the course, students will be able to understand: -

CO1: the degree of ionization, pH and salt hydrolysis.
CO2: the different types of Buffer solutions.
CO3: the concepts of solubility product.
CO4: the conductivity, specific conductivity, equivalent conductivity and molar conductivity, application of conductance measurement in determining various physical parameters.
CO5: the standard electrode potential of half cells and calculate the EMF of a cell using Nernst equation.
CO6: EMF measurements in determining various parameters like free energy, enthalpy, entropy, equilibrium constants, etc.
CO7: the concentration cells with and without transference.
CO8: the principle of potentiometric titrations.

MIC-10: Physical Chemistry: Ionic Equilibria, Conductance and Electrochemical Cells (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Phase Equilibria:** Phases, components and degrees of freedom of systems, criteria of phase equilibria, Gibbs Phase Rule and its thermodynamic derivation, phase diagram of one component system (water/sulphur).	15
2	**Conductance:** Conductance, specific conductance (conductivity), equivalent and molar conductance, their variation with dilution for weak and strong electrolytes, Kohlrausch law of independent migration of ions, transference number.	15
3	**Electrochemical cells:** Electrode and electrode potential, reference electrodes (Standard hydrogen electrode and Calomel electrode), standard electrode potential, type of electrodes, galvanic cells, electrochemical series and its significance, Nernst equation and its importance, types of electrochemical cells – chemical cells and concentration cells, concept of EMF of a galvanic cell, measurement of EMF of a cell, construction and working of a Galvanic cell.	15
4	**Applications of EMF measurements** Determination of equilibrium constant, ΔG, ΔS and ΔH of cell reactions, calculation of solubility product of a sparingly soluble salt, the valency of ions.	15
	TOTAL	60

Suggested Readings:

1. Atkins, P. W.; de Paula, J.; Keeler, J., Physical Chemistry, 11th Ed., Oxford University Press India (2018).
2. Bahl, A.; Bahl, B. S.; Tuli, G. D., Essentials of Physical Chemistry, S.

Chand and Company (2014).
3. Negi, A. S.; Anand, S. C., Physical Chemistry, New Age International Publishers (2007).
4. Puri, B. R.; Sharma, L. R.; Pathania, M. S., Principles of Physical Chemistry, 47th Ed., Vishal Publishing (2017).
5. Silbey, R. J.; Alberty, R. A.; Bawendi, M. G., Physical Chemistry, 4th Ed., Wiley India (2006).
6. Rakshit, P. C., Physical Chemistry, Revised Ed. Sarat Book House (2014).
7. Kapoor, K. L., A Textbook of Physical Chemistry: States of Matter and Ions in Solution, Vol. I, 6th Ed., McGraw Hill Education India (2019).

Course Structure

Chemistry

(B) Multidisciplinary Courses to be offered by the department for students of different disciplines.

Sem	Type of Course	Name of Course	Credits	Marks
I	MDC-1 (T)	Inorganic Chemistry: Atomic Structure, Chemical Bonding and fundamentals of Organic Chemistry.	2	100
	MDC-1 (P)	Inorganic and Organic Chemistry Lab	1	100
II	MDC-2-(T)	Inorganic Chemistry: Atomic Structure, Chemical Bonding and fundamentals of Organic Chemistry.	2	100
	MDC-2 (P)	Inorganic and Organic Chemistry Lab (P)	1	100
III	MDC-3 (T)	Chemistry in Everyday Life	2	100
III	MDC-3 (P)	Inorganic and Organic Chemistry Lab (P)	1	100

Sub Total: 09

SEMESTER-III

MDC-3 (T): Chemistry in everyday life

Course outcomes:

After completion of this course, student will be able to understand:

CO1: Chemistry of hydrocarbons.

CO2: applications of Chemistry in everyday life.

MDC-3 (T): Chemistry in everyday life (Theory: 3 credits)		
Unit	**Name of Course**	**No. of Lectures**
1	**Polymers:** Monomers and polymers, classification of polymers, addition and condensation of polymers, homopolymers and copolymers, preparation, properties and applications of polymers, styrene, PVC, Teflon, acrolein, nylon-6, nylon-66, natural rubber, Buna-S, Buna-N, bakelite, neoprene, biodegradable polymers.	8
2	**Sources of energy:** Nuclear energy, solar energy, bioenergy, hydral energy, bio additives to fuels, blue and green hydrogen as fuel.	8
3	**Colloids:** True solution, suspension, colloidal solution, types of solution, preparation of colloids, Tindal effect, Brownian motion, electrophoresis, cataphoresis, dialysis.	8
4	**Chemistry in everyday life:** Air Pollution, Water Pollution, Toxic Chemicals (Inorganic and Organic), Chemicals in soil, Important Fertilizers, Green Chemistry and foods preservatives.	6
	TOTAL	30

Suggested Readings:

1. Organic Chemistry- Morrison & Boyd.
2. Environmental Chemistry, B. K. Sharma

Semester-III

MDC-3 (P): Qualitative Analysis of Inorganic Salt Mixture Containing Four Radicals (P)

Course Outcomes

After the end of this practical course students will be skilled in: -

CO1: identification of basic radicals from known and unknown salts.

CO2: identification of acid radicals from known and unknown salts.

Qualitative Analysis of inorganic salt mixture containing Four Radicals. **(Practical 1 credits)**
1. Identification of known cations (basic radicals) and anions (acid radicals) from the supplied salt. 2. Identification of cation (basic radicals) and anions (acid radicals) from unknown salt. 3. Identification of cation (basic radicals) and anions (acid radicals) from binary mixture of inorganic salts.

SuggestedReadings:

1. Raj, G., Advanced Practical Inorganic Chemistry, Krishna Prakashan, Meerut (2013).
2. Mendham, J.; Denney, R. C., Barnes, J. D.; Thomas, M.; Sivasankar, B., Vogel's Quantitative Chemical Analysis, 6th Ed., Pearson Education India (2009).

To,

The Principal Secretary
Rajbhavan, Bihar, Patna.

Sub.- Regarding submission of proposed course structure and uniform syllabus of GEOGRAPHY for 3rd To 8th Semester of 4-Year undergraduate.

Ref- Letter No.-BSU(UGC)-02/2023-1457/GS(I), Dated-14-09-2023.

Sir,

In Compliance with your letter no-BSU(UGC)-02/2023-1457/GS(I). dated 14-09-2023 followed by above mentioned letter no, we are submitting the proposed Course structure and syllabus of GEOGRAPHY for Semester 3rd to 8th semester of the 4 year, under graduate course system as per UGC Regulations.

Enclosed-as above.

Yours faithfully,

Professor (Dr.) R.B.P Singh
Former Vice-Chancellor
Patna University, Patna

Professor (Dr.) Bibha Singh
Gaya College,Gaya

Professor (Dr.) Narendra Singh
VKSU, Ara

Professor (Dr.) Md. Nazim
Head, P. G. Dept. of Geography
Patna University, Patna

Professor (Dr.) Ram Pravesh Yadav
Retd. Head, BRA Bihar University,
Muzaffarpur.

Professor (Dr.) Usha Singh
Head, University Dept. of Geography
J. P. University, Chapra.

Dr. Ganesh Prasad
Associate Professor & Head,
University Dept of Geography
BNMU, Madhepura

Dr. Anoop Kumar Singh
Associate Professor
University Dept. of Geography
Patliputra University, Patna

Dr. Sunil Kumar Singh A
Assistant Professor
University Dept. of Geography
LNMU, Darbhanga

Md Raiyaj Ansari
Assistant Professor
P.G. Dept. of Geography
R.K. College, Madhubani

Dr. Vidya Yadav
Assistant Professor
P.G Dept. of Geography
College of Commerce(A&C), Patna

Syllabus

For

Bachelor of Arts / Science Programme

In

GEOGRAPHY

Under Choice Based Credit System (CBCS)

(2023-24 onwards)

of

NEW EDUCATION POLICY-2020

(Semester-III To Semester-VIII)

GEOGRAPHY

(A) Major Core Course

Sl. No.	Sem.	Type of Course	Name of Course	Credits	Marks
1.	I	MJC-1 (T)	Geomorphology (T)	4	100
		MJC-1 (P)	Geomorphology (P)	2	100
2.	II	MJC-2 (T)	Climatology and Oceanography (T)	4	100
		MJC-2(P)	Climatology and Oceanography (P)	2	100
3.	III	MJC-3 (T)	Economic Geography (T)	5	100
		MJC-4 (T)	Cartograms, Map Projection and Surveying (T)	3	100
		MJC-4(P)	Cartograms, Map Projection and Surveying (P)	1	100
4.	IV	MJC-5(T)	Human Geography (T)	5	100
		MJC-6(T)	Geography of India and Bihar (T)	5	100
		MJC-7(T)	Statistical Methods in Geography (T)	3	100
		MJC-7(P)	Statistical Methods in Geography (P)	2	100
5.	V	MJC-8(T)	Environmental Geography (T)	5	100
		MJC-9(T)	Cartographic Techniques (T)	3	100
		MJC-9 ()	Cartographic Techniques (P)	2	100
6.	VI	MJC-10(T)	Evolution of Geographical Thought (T)	5	100
		MJC-11(T)	Research Methodology and Field Work	4	100
		MJC-12(T)	Remote sensing and GIS (T)	3	100
		MJC-12(P)	Remote Sensing and GIS (P)	2	100
7.	VII	MJC-13(T)	Regional Planning and Development (T)	5	100
		MJC-14(T)	Research Methodology (T)	5	100
		MJC-15(T)	Disaster Management (T)	4	100
		MJC-15(P)	Disaster Management (P)	2	100
8.	VIII	MJC-16(T)	Social Geography (T)	4	100
			TOTAL	**80**	

(B)Minor Courses to be offered by the Department for students of other Departments of Social Science

Sl.No.	Sem	Type of Course	Name of Course	Credit	Marks
1.	I	MIC-1(T)	Geomorphology(T)	2	100
		MIC-1(P)	Geomorphology(P)	1	100
2.	II	MIC-2(T)	Climatology and Oceanography(T)	2	100
		MIC-2(P)	Climatology and Oceanography(P)	1	100
3.	III	MIC-3(T)	Economic Geography(T)	2	100
		MIC-3(P)	Economic Geography(P)	1	100
4.	IV	MIC-4(T)	Population Geography(T)	2	100
		MIC-4(P)	Population Geography(P)	1	100
5.	V	MIC-5(T)	Human Geography(T)	3	100
		MIC-5(T)	Geography of India and Bihar(T)	2	100
		MIC-6(P)	Geography of India and Bihar(P)	1	100
6.	VI	MIC-7(T)	Regional Planning and Development (T)	4	100
		MIC-8(P)	Statistical Method in Geography (P)	2	100
7.	VII	MIC-9(T)	Environmental Geography (T)	3	100
		MIC-9(P)	Environmental Geography (P)	1	100
8.	VIII	MIC -10(T)	Remote Sensing and GIS (T)	3	100
		MIC-10(P)	Remote Sensing and GIS (P)	1	100
			TOTAL	**32**	

Note: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department concerned may also decide practical courses.

Question Paper Pattern

The Question paper pattern shall consists of three parts-

Part-A-Comulsory- consisting of objective/multiple choice type- each carrying two marks 10x2 = 20 marks

Part-B- Short Answer Type- Four questions to be answered out of six questions- each carrying five marks 04x5 = 20 marks

Part-C-Long Answer Type- Three questions to be answered out of five questions- each carrying ten marks 03x10 = 30 marks

Note- Examinations shall not be held on OMR Sheet strictly.

We are submitting the syllabus of Bachelor of Arts / Science Programme in GEOGRAPHY for Semester-III and Semester-VIII.

Professor (Dr.) R.B.P Singh
Former Vice-Chancellor
Patna University, Patna

Professor (Dr.) Bibha Singh
Gaya College,Gaya

Professor (Dr.) Narendra Singh
VKSU, Ara

Professor (Dr.) Md. Nazim
Head, P. G. Dept. of Geography
Patna University, Patna

Professor (Dr.) Ram Pravesh Yadav
Retd. Head, BRA Bihar University,
Muzaffarpur.

Professor (Dr.) Usha Singh
Head, University Dept. of Geography
J. P. University, Chapra.

Dr. Ganesh Prasad
Associate Professor & Head,
University Dept. of Geography
BNMU, Madhepura

Dr. Anoop Kumar Singh
Associate Professor
University Dept. of Geography
Patliputra University, Patna

Dr. Sunil Kumar Singh A
Assistant Professor
University Dept. of Geography
LNMU, Darbhanga

Md Raiyaj Ansari
Assistant Professor
P.G. Dept. of Geography
R.K. College, Madhubani

Dr. Vidya Yadav
Assistant Professor
P.G Dept. of Geography
College of Commerce(A&C), Patna

GEOGRAPHY

SEMESTER –III

TYPE OF COURSE	:	**MJC-3 (T)**	**Full Marks: 100**
NAME OF COURSE	:	**ECONOMIC GEOGRAPHY**	**ESE - 70 Marks**
CREDIT	:	**5**	**CIA - 30 Marks**

COURSE OBJECTIVES:

1. To understand the concept and spatial distribution of economic activities in the world.
2. To analyse the factors affecting the economics activity focusing on Von Thunen and Weber theory.
3. To describe in the details the regionalization of different economic activities.

COURSE OUTCOMES:

After learning, students will be able to:

1. Distinguish to different types of economic activities and their significance.
2. Identify the factors responsible for the location and distribution of activities.
3. Examine the significance and relevance of various locational theories.

UNIT	TOPICS	No. of Lectures
I	Meaning and Scope of Economic Geography: Concept and Classification of Economic Activities- Primary, Secondry and Tertiary.	12
II	Locational Theory of Agriculture (Von Thunen); Intensive Subsistence Farming, Commercial Grain Farming and Dairy Farming	12
III	Industrial Location Theory (Weber); Major Industries - Iron and Steel, Cotton Textile, Automobile Industry and Information Technology.	14
IV	Major Oceanic Routes- Suez and Panama. International Trade and WTO; Special Economic Zone(SEZ)	12
	TOTAL	**50**

Suggested Readings:-

1. Alexander J. W.. (1963) *Economic Geography*, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
2. Coe N. M., Kelly P. F. and Yeung H. W., (2007) *Economic Geography: A Contemporary Introduction*, Wiley-Blackwell.
3. Combes P., Mayer T. and Thisse J. F., (2008) *Economic Geography: The Integration of Regions and Nations*, Princeton University Press.
4. Wheeler J. O., (1998) *Economic Geography*, Wiley..
5. Bagchi-Sen S. and Smith H. L., (2006) *Economic Geography: Past, Present and Future*, Taylor and Francis.
6. Willington D. E., (2008) *Economic Geography*, Husband Press.
7. Singh K.N.& Jagdish Singh (2020)., *Aarthik Bhugol ke Mool Tatva*, Prayag Publication.
8. Jatt B.C., (2020) *Aathik Bhugol.*. Mallik Book Company Jaypur.
9. Gautam Alka., (2022) *Aarthik bhugol ke mool tatv*. sarda pustak bhawan, prayagraj.
10. Maurya S.D., *Aarthik Bhugol*., Pravalika Publication.

GEOGRAPHY

SEMESTER –III

TYPE OF COURSE : **MJC-4 (T)** **Full Marks: 100**

NAME OF COURSE : **CARTOGRAMS, MAP PROJECTION AND SURVEYING** **ESE - 70 Marks**

CREDIT : **3** **CIA - 30 Marks**

Course Objectives:

1. Develop an understanding for construction of maps through cartographic conventions.
2. Develop an understanding of the concepts regarding map projections to suit map purposes.
3. Better understanding of survey and surveying.

Course Outcomes:

This is a theory paper, when students complete it, they will be able to:

1. Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
2. Recognize the benefits and limitations of some common map projections and their uses.
3. Develop an understanding and importance of surveying.

UNIT	TOPICS	No. of Lectures
I	Nature and Scope of Cartography, Bar Diagram -Types and Uses,	06
II	Map and its Types, Distribution Maps - Dot, Choropleth and Isopleth.	08
III	Map Projection : Concept, Classification and Properties.	08
IV	Surveying – Concept, Types and its significance.	08
	TOTAL	30

Suggested Readings:-

1. Anson R. and Ormelling F. J., (1994) *International Cartographic Association: BasicCartographic Vol.* Pregmen Press.
2. Gupta K.K. and Tyagi, V. C., (1992) *Working with Map*, Survey of India, DST, New Delhi.
3. Maltiyar. K. K & Maltiyar S. R., (2019) Concept of *Cartography, Remote Sensing and GIS*, Rajesh publication, New Delhi.
4. Mishra R.P. and Ramesh, A., (1989) *Fundamentals of Cartography*, Concept, N Resource & Economic Geography ew Delhi.
5. Monkhouse F. J. and Wilkinson H. R., (1973) *Maps and Diagrams*, Methuen, London.
6. Rhind D. W. and Taylor D. R. F., (eds.), (1989) *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
7. Robinson A. H., (2009) *Elements of Cartography*, John Wiley and Sons, New York.
8. Sharma J. P., (2010) *Prayogic Bhugol*, Rastogi Publishers, Meerut.

9. Singh R. L. and Singh R. P. B., (1999) *Elements of Practical Geography*, Kalyani Publishers, New Delhi.
10. Sinha. M.M. P., (2017) *Ucch Cartography, Rajesh Publication, New Delhi.*
11. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
12. Singh R L & Singh Rana P B, (1991) Prayogtmak Bhugol ke Mool Tatva, Kalyani Publishers, New Delhi.
13. Sharma, J P (2010) Prayogtmak Bhugol ki Rooprekha, Rastogi Publications, Meerut.
14. Singh, R L & Dutta, P K (2012) Prayogatmak Bhugol, Central Book Depot, Allahabad.

GEOGRAPHY

SEMESTER –III

TYPE OF COURSE : **MJC-4 (P)** **Full Marks: 100**

NAME OF COURSE : **CARTOGRAMS, MAP PROJECTION AND SURVEYING**

ESE - 70 Marks

CREDIT : **1** **CIA - 30 Marks**

Course Objectives:

1. Learning to construct maps through cartographic conventions.
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes;
3. Better understanding of the techniques for interpretation of Prismatic Compass Survey.

Course Outcomes:

This is a practical, hands-on course; when students complete it, they will be able to:

1. Construct maps and various Diagrams.
2. Learn the construction and use of some common map projections.
3. Understand and perform Prismatic Compass Survey.

UNIT	TOPICS	No. of Lectures
I	Bar Diagram, Pie Diagram and Choropleth.	03
II	Map Projection : Simpal Conical One Standard Parallel, Cylindrical Equidistant Projection. Zenithal Equidistant Projection.	04
III	Prismatic Compass Survey: Open and Closed Traverse.	03
IV	Record of Practical Work & Viva-voce.	--
	TOTAL	10

Suggested Readings:-

1. Anson R. and Ormelling F. J., (1994) *International Cartographic Association: BasicCartographic Vol.* Pregmen Press.
2. Gupta K.K. and Tyagi, V. C., (1992) *Working with Map*, Survey of India, DST, New Delhi.
3. Maltiyar. K. K & Maltiyar S. R., (2019) Concept of *Cartography, Remote Sensing and GIS,* Rajesh publication, New Delhi.
4. Mishra R.P. and Ramesh, A., (1989) *Fundamentals of Cartography*, Concept, N Resource & Economic Geography ew Delhi.
5. Monkhouse F. J. and Wilkinson H. R., (1973) *Maps and Diagrams*, Methuen, London.
6. Rhind D. W. and Taylor D. R. F., (eds.), (1989) *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
7. Robinson A. H., (2009) *Elements of Cartography*, John Wiley and Sons, New York.
8. Sharma J. P., (2010) *Prayogic Bhugol*, Rastogi Publishers, Meerut.

9. Singh R. L. and Singh R. P. B., (1999) *Elements of Practical Geography*, Kalyani Publishers, New Delhi.
10. Sinha. M.M. P., (2017) *Ucch Cartography, Rajesh Publication, New Delhi.*
11. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
12. Singh R L & Singh Rana P B, (1991) Prayogtmak Bhugol ke Mool Tatva, Kalyani Publishers, New Delhi.
13. Sharma, J P (2010) Prayogtmak Bhugol ki Rooprekha, Rastogi Publications, Meerut.
14. Singh, R L & Dutta, P K (2012) Prayogatmak Bhugol, Central Book Depot, Allahabad.

GEOGRAPHY

SEMESTER –IV

TYPE OF COURSE	:	**MJC-5 (T)**	**Full Marks: 100**
NAME OF COURSE	:	**Human Geography**	**ESE: 70**
CREDIT	:	**5**	**CIA: 30**

COURSE OBJECTIVES:

1. To understand the concept of human communities, culture and its relationship with environment.
2. To examinethe Contemporary relevance of environmental thoughts.
3. To provide an in-depth knowledge of Indianraces and tribes.
4. To give a detailed eye-view on migration and settlement pattern

COURSEOUTCOMES:

Aftercompletionofthecoursestudents willbe able to-

1. Get a complete idea of space and place
2. Able to know the types and distribution of tribes in India and Bihar with reference to Census data
3. Conceptualize the trends and pattern of Migration and settlement types

Unit	Topics	No. of Lectures
I	Human Geography: Definition, Nature and Scope; FundamentalConcepts in Human Geography, Contemporary relevance of Determinism, PossibilismandNeo-Determinism	15
II	Population: Population Composition, Growth, Density and Distribution (World); Malthus Population theory, Demographic Transition Theory;Migration: Causes and types	15
III	Races and Tribes:Major Tribal Groups of India and Bihar; Race, Religion and Language	10
IV	Settlements: Types and Pattern of Rural Settlements; Classification of Urban Settlements based on Function and Size; Christaller Central Place Theory; Trends and Pattern of Urbanization (India and World)	10
Total		**50**

Suggested Readings: -

1. Bergwan, Edward E., Human Geography: Culture. Connections and Landscape, Prentice Hall, New Jersey. 1995
2. Carr, M., Patterns, Process and change in Human Geography, MacMillan Education, London, 1987
3. Chandna R.C. 2022. Geography of Population, Part I: Concepts, Determinants and World Patterns,Kalyani Publishers.
4. Dorrel, D., Henderson, P. 2018. Introduction to Human Geography. University of Georgia Press.
5. Hassan, M. I. (2005) Population Geography, Rawat Publication, Jaipur.
6. Fouberg, E.H., Nash, A.B., Murphy, A.B., de Blij, H., 2015. Human Geography: People, Place, and Culture, 11th ed, Wiley.
7. Ghosh S. 1998. An Introduction to Settlement Geography, Sangam Books Ltd.
8. Gregory, D., Johnston, R., Pratt, G., Watts, K., Whatmore, S. (Eds) 2009. The Dictionary of Human Geography, 5th ed, Wiley-Blackwell.
9. Knox, P.L., Marston, S.A. 2014. Human Geography, Places and Regions in Global Context, 6th ed, Pearson Education.
10. Majumdar, P.K. 2013. India's Demography: Changing Demographic Scenario in India, RawatPublications
11. Mercier, M., Norton, W. 2019. Human Geography, 10th ed, Oxford University Press.
12. Paul, C., Crang, P., Goodwine, M.G. 2014, Introducing Human Geographies, 3rd ed, Routledge.
13. Rubenstein J.M., 2018, Contemporary Human Geography, 4th ed, Pearson.
14. Rubenstein, J.H. and Bacon, R.S., The Cultural Landscape -A Introduction to Human geography, Prenice Hall, India, New Delhi, 1990
15. Short, R.J. 2017. Human Geography: A Short Introduction, 2nd ed, Oxford University Press.
16. Sing, R.Y. 2009, A Geography of Settlements, Rawat Publications.
17. Census of India, Tribes (2011), https://censusindia.gov.in/census.website/

GEOGRAPHY

SEMESTER –IV

TYPE OF COURSE	**:**	**MJC-6 (T)**	**Full Marks: 100**
NAME OF COURSE	**:**	**Geography of India and Bihar**	**ESE: 70**
CREDIT	**:**	**5**	**CIA: 30**

COURSE OBJECTIVES:

1. To acquire the students' basic facts and figures about the spatial distribution of the country
2. To appreciate the vastness and diversity of India as a Nation
3. To know the rich physical and cultural resource of India

COURSEOUTCOMES :

Aftercompletionofthecoursestudents willbe able to-

1. Get an overview of Geography of India and Bihar
2. Learn the India's rich minerals and industrial assets
3. Understand the current economic development of India
4. Gain comprehensive knowledge about Bihar with facts and figures

Unit	Topics	No. of Lectures
I	India: Relief and structure, Major Drainage system: Himalayan and Peninsularrivers	12
II	Climate: Origin and Mechanism of Monsoon, Soil Types and Distribution;NaturalVegetation:Types, Characteristics, and Distribution	12
III	Mineral and Industries: Types of Natural resource, Distribution of Minerals-Iron ore, Manganese, Mica; Power resource -Coal, Petroleum and Hydro Power; Selected Industries: Iron and steel, Cotton textile and Sugar, Automobile and Information Technology	12
IV	Geography of Bihar: Structure and Physiography, Important Rivers of Bihar, Problems of Flood and Drought; Population: Growth, Density and Distribution, Trends of Urbanization	14
Total		**50**

Suggested Readings:

1. Deshpande C. D., 1992: *India: A Regional Interpretation*, ICSSR, New Delhi.
2. Johnson, B. L. C., ed. 2001. *Geographical Dictionary of India*. Vision Books, New Delhi.
3. Mandal R. B. (ed.), 1990: *Patterns of Regional Geography – An Intenational Perspective. Vol. 3 – Indian Perspective*.
4. Sdyasuk Galina and P Sengupta (1967): *Economic Regionalisation of India*, Census of India.

5. Sharma, T. C. 2003: India - Economic and Commercial Geography. Vikas Publ., New Delhi.
6. Singh R. L., 1971: *India: A Regional Geography*, National Geographical Society of India.
7. Singh, Jagdish 2003: *India - A Comprehensive & Systematic Geography*, GyanodayaPrakashan,Gorakhpur.
8. Spate O. H. K. and Learmonth A. T. A., 1967: *India and Pakistan: A General and Regional, Geography*,Methuen.
9. Sinha, V.N.P et.al., (2013), Bihar: Land, People and Economy, Rajesh Publication, New Delhi
10. Sinha, V.N.P et.al., (2014), Bihar Ka Bhugol, Rajesh Publication, New Delhi
11. Sharma, Nandeshwar (2007), Bihar ki BhaugoalikSamisksha, Vasundhara Prakashan, Gorakhpur

GEOGRAPHY

SEMESTER –IV

TYPE OF COURSE : **MJC-7 (T) Full Marks: 100**
NAME OF COURSE : **Statistical Methods in Geography ESE: 70**
CREDIT : **3CIA: 30**

COURSE OBJECTIVES :

1. Enable the students to differentiate between quantitative and qualitative information
2. To understand the various data sets, its sources and methods of data collection
3. To enhance the study of Geography in quantitative terms with the use of statistical methods

COURSEOUTCOMES :

Aftercompletionofthecoursestudents willbe able to-

1. Know the various types of data and its sources
2. Present data in graphical and pictorial form
3. Produce various types of data tabulation

Unit	Topics	No. of Lectures
I	Use of Data in Geography: Significance of Statistical Methods in Geography, Sources and Types of Data, Scale of Measurement,	8
II	Measures of Central Tendency: Mean, Median, Mode - Concept and Properties;Measures of Dispersion	8
III	Sampling Methods: Types of Sampling- Probability & Non-Probability Sampling	6
IV	Correlation: Meaning and Types -Karl Pearson's Coefficient of Correlation, Spearman's Rank Correlation Coefficient and Scatter Diagram; Regression Analysis	8
Total		**30**

Suggested Readings:

1. Berry B. J. L. and Marble D. F. (eds.): *Spatial Analysis – A Reader in Geography.*
2. Ebdon D., (1977) *Statistics in Geography: A Practical Approach.*
3. Hammond P. and McCullagh P. S., (1978) *Quantitative Techniques in Geography: An Introduction,* Oxford University Press.
4. King L. S., (1969) *Statistical Analysis in Geography*, Prentice-Hall.
5. Mahmood A., (1977) *Statistical Methods in Geographical Studies,* Concept.

6. Pal S. K., (1998) *Statistics for Geoscientists*, Tata McGraw Hill, New Delhi.
7. Sarkar, A. (2013) Quantitative geography: techniques and presentations. Orient Black Swan Private Ltd., New Delhi
8. Silk J., (1979) *Statistical Concepts in Geography*, Allen and Unwin, London.
9. Spiegel M. R.: Statistics, *Schaum's Outline Series.*
10. Yeates M., (1974) An *Introduction to Quantitative Analysis in Human Geography*, McGraw Hill, New York.
11. Shinha, Indira (2007) Sankhyikibhugol. Discovery Publishing House, New Delhi

GEOGRAPHY

SEMESTER –IV

TYPE OF COURSE	:	**MJC-7 (P)Full Marks: 100**	
NAME OFCOURSE	:	**Statistical Methods in Geography**	**ESE: 70**
CREDIT	:	**2**	**CIA: 30**

COURSE OBJECTIVES:

1. To enable the students to differentiate between quantitative and qualitative information
2. To enable students with the nature of various data, different sources and methods of data collection
3. To apply the sampling methods for data collection

COURSE OUTCOME:

Aftercompletionofthecoursestudents willbe able to-

1. Present statistical data in diagrammatic and graphical form
2. Distinguish between dependent and independent variable

Unit	Topics	No. of Lectures
I	Measurement of Central Tendency: Mean, Median, Mode and Centro-GraphicTechniques- Histogram and Frequency Polygon	6
II	Measures of dispersion: Range, Mean Deviation, Standard Deviation, Quartile Deviation	6
III	Correlation - Karl Pearson's Coefficient of Correlation, Spearman's Rank Correlation and Scatter Diagram	8
IV	Practical Record and Viva-Voce	-
Total		**20**

Suggested Readings:

1. Berry B. J. L. and Marble D. F. (eds.): *Spatial Analysis – A Reader in Geography.*
2. Ebdon D., (1977) *Statistics in Geography: A Practical Approach.*
3. Hammond P. and McCullagh P. S., (1978) *Quantitative Techniques in Geography: An Introduction,* Oxford University Press.
4. King L. S., (1969) *Statistical Analysis in Geography*, Prentice-Hall.
5. Mahmood A., (1977) *Statistical Methods in Geographical Studies,* Concept.
6. Pal S. K., (1998) *Statistics for Geoscientists*, Tata McGraw Hill, New Delhi.
7. Sarkar, A. (2013) Quantitative geography: techniques and presentations. Orient Black Swan Private Ltd., New Delhi

8. Silk J., (1979) *Statistical Concepts in Geography*, Allen and Unwin, London.
9. Spiegel M. R.: Statistics, *Schaum's Outline Series.*
10. Yeates M., (1974) An *Introduction to Quantitative Analysis in Human Geography*, McGraw Hill, New York.
11. Shinha, Indira (2007) Sankhyikibhugol. Discovery Publishing House, New Delhi

GEOGRAPHY

SEMESTER –V

TYPE OF THE COURSE : MJC-8 (T) **Full Marks: 100**
NAME OF THE COURSE : ENVIRONMENTAL GEOGRAPHY **ESE: 70**
CREDIT : 5 **CIA: 30**
COURSE OBJECTIVES :

1. To understand the Environmental Geography - Its concepts and Components.
2. To critically examine Environmental degradation and pollution.
3. To provide a theoretical and empirical framework for understanding environmental law.

COURSE OUTCOMES :

After completion of the course, students will be able to-

1: Develop an idea about Environment and different fundamental concepts
2: Understand its environmental degradation and various types of pollutions.
3: Assess the role of anthropogenic activities producing pollution.
4: Explain different types of environmental crisis and bio-diversity.
5: Understand the processes of natural hazards and disasters.

UNIT	TOPICS	No.of Lectures
I	Environmental Geography: meaning and concept, Environmental degradation, Bio-diversity: Hot Spots, Heat island, Components of environment and their inter-relationship, Concepts and types of Eco-system, Ecological balance, Bio-energy Cycle.	12
II	Environmental pollution : Air pollution, Water pollution, Noise pollution, Sound pollution, and their remedial measures, International standard of Drinking water	12
III	Environmental Degradation: Causes and Impacts, Natural disa Drought, Flood and Earthquake, Environmental Pollution : Air Poll Water Pollution, Environmental management and policies.	14
IV	Sewage disposal, Cleaning of rivers, Natural hazards and disasters, Radiation hazards, Gas leak, Acid rain, Environmental laws.	12
	Total	**50**

Suggested Readings:-

1. Chandna R. C., (2002)*Environmental Geography*, Kalyani, Ludhiana.
2. Cunninghum W. P. and Cunninghum M. A., (2004)*Principals of EnvironmentalScience: Inquiry and Applications*, Tata Macgraw Hill, New Delhi.
3. Goudie A., (2001)*The Nature of the Environment*, Blackwell, Oxford.
4. Mal, Suraj., and Singh, R.B. (Eds.) (2009) *Biogeography and Biodiversity.*Rawat Publication, Jaipur.
5. Miller G. T., (2004)*Environmental Science: Working with the Earth*, Thomson BrooksCole, Singapore.
6. MoEF, (2006)*National Environmental Policy-2006.* Ministry of Environment andForests, Government of India.
7. Singh, R.B. and Hietala, R. (Eds.) (2014) Livelihood security in Northwestern Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh, India. Advances in Geographical and Environmental Studies, Springer.
8. Odum, E. P. et al, (2005)*Fundamentals of Ecology*, Ceneage Learning India.
9. Singh S., (1997)*Environmental Geography*, PrayagPustakBhawan. Allahabad.
10. UNEP, (2007)*Global Environment Outlook: GEO4: Environment for Development*, United Nations Environment Programme.
11. Singh, M., Singh, R.B. and Hassan, M.I. (Eds.) (2014) Climate change and biodiversity: Proceedings of IGU Rohtak Conference, Volume 1. Advances in Geographical and Environmental Studies, Springer
12. Singh, R.B. (1998) Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub..
13. Singh, Savindra 2001. *ParyavaranBhugol*, PrayagPustakBhawan, Allahabad. (in Hindi).

GEOGRAPHY

SEMESTER –V

TYPE OF THE COURSE : **MJC-9 (T)** **Full Marks: 100**
NAME OF THE COURSE : **CARTOGRAPHIC TECHNIQUES** **ESE: 70**
CREDIT : **3** **CIA: 30**
COURSE OBJECTIVES :

1. Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions;
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes;
3. Better understanding of the techniques for interpretation of topographical and weather maps.

COURSE OUTCOMES :

This is a practical, hands-on course; when students complete it, they will be able to:

1. Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
2. Recognize the benefits and limitations of some common map projections and their use.
3. Understand and perform interpretation of topographical maps and weather maps.

UNIT	TOPICS	No.of Lectures
I	Nature and Scope of Cartography, Scale- Concept and Application, Graphical Construction of Simple, Comparative and Diagonal Scales.	8
II	Weather Map – Difference between Climate and Weather, Significance of weather maps,Study and Interpretation of Weather Maps. Cloud types, Methods of interpretation of daily weather maps, Development of weather forecasting technology	8
III	Map Projections - Concept, Classification and Properties, Graphical Construction of Cylindrical Equidistant and Equal AreaProjection, Conical Projection with One and Two Standard Parallels, Zenithal Equi-Distant and Equal Area Projection.	8
IV	Topographical Map – Development of topographical mapping in India, Maps of Survey of India, Methods of study of the Topographical maps, Interpretation of Topographical Maps.	6
	Total	**30**

Suggested Readings:-

1. Anson, R. and Ormelling, F. J., (1994) International Cartographic Association: BasicCartographic Vol. Pregmen Press.
2. Gupta, K.K. and Tyagi, V. C., (1992) Working with Map, Survey of India, DST, New Delhi.
3. Maltiyar. K. K &Maltiyar S. R., (2019) Concept of Cartography, Remote Sensing and GIS, Rajesh publication, New Delhi.
4. Mishra, R.P. and Ramesh, A., (1989) Fundamentals of Cartography, Concept, NResource & Economic Geographyew Delhi.
5. Monkhouse, F. J. and Wilkinson H. R., (1973) Maps and Diagrams, Methuen, London.
6. Rhind, D. W. and Taylor D. R. F., (eds.), (1989) Cartography: Past, Present and Future, Elsevier, International Cartographic Association.
7. Robinson, A. H., (2009) Elements of Cartography, John Wiley and Sons, New York.
8. Sharma J. P., (2010) PrayogicBhugol, Rastogi Publishers, Meerut.
9. Singh R. L. and Singh R. P. B., (1999) Elements of Practical Geography, Kalyani Publishers, New Delhi.
10. Sinha. M.M. P., (2017) Ucch Cartography, Rajesh Publication, New Delhi.
11. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
12. Singh R L & Singh Rana P B, (1991) PrayogtmakBhugolkeMoolTatva, Kalyani Publishers, New Delhi.
13. Sharma, J P (2010) PrayogtmakBhugolkiRooprekha, Rastogi Publications, Meerut.
14. Singh, R L & Dutta, P K (2012) PrayogatmakBhugol, Central Book Depot, Allahabad.

GEOGRAPHY

SEMESTER –V

TYPE OF THE COURSE : **MJC-9 (P)** **Full Marks: 100**
NAME OF THE COURSE : **CARTOGRAPHIC TECHNIQUES** **ESE: 70**
CREDIT : **3** **CIA: 30**

COURSE OBJECTIVES :

1. Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions;
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes;
3. Better understanding of the techniques for interpretation of topographical and weather maps.

COURSEOUTCOMES :

This is a practical, hands-on course; when students complete it, they will be able to:

1. Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
2. Recognize the benefits and limitations of some common map projections and their use.
3. Understand and perform interpretation of topographical maps and weather maps.

UNIT	TOPICS	No.of Lectures
I	Nature and Scope of Cartography, Scale- Concept and Application, Construction of Simple, Comparative and Diagonal Scales.	15
II	Topographical Map – Study and Interpretation of Topographical Maps. Map Projection: Cylindrical Equidistant and Equal Area Projection, Conical Projection with One and Two Standard Parallels, Zenithal Equi-Distant and Equal Area Projection.	15
III	Practical Record and Viva-voce	
	Total	**30**

GEOGRAPHY
SEMESTER - VI

TYPE OF COURSE	:	**MJC- 10 (T)**	**FULL MARKS: 100**
NAME OF COURSE	:	**EVOLUTION OF GEOGRAPHICAL THOUGHT**	**ESE- 70 MARKS**
CREDIT	:	**5**	**CIA- 30 MARKS**

Course Objectives:

1. Understanding historical evolution of geographic thought;
2. Detailed analysis of different paradigms in geography;
3. Evaluating the contemporary trends in geographical studies

Course Outcomes:

After studying, students will be able to:

1. Understand the evolution of geographical thought and relation of Geography with other Sciences.
2. Detailed knowledge about the paradigms and debates in the geographical studies.
3. Understanding of recent traditions in geography.

UNIT	TOPICS	NUMBER OF LECTURES
I	Meaning and Definition of Geography, Relation of Geography with Other Sciences.	10
II	Contribution of Geographers: Eratosthenes, Ptolemy, Stabo, Al-Idrisi, Al-Masudi, Humbolt, Ritter, Ratzel, Blache and Mackinder.	15
III	Dualism in Geography- Physical Vs Human Geography, Determinism Vs Possiblism, Neo-Determinism, Systematic Vs Regional.	10
IV	Concept and Methodological development in Geography, Quantitative Revolution, Behaviouralism, Applied Geography,	15

	Spatial Analysis, Inductive and Deductive Approachs, Changing Paradigm, Recent Trends in Geography.	
Total		**50**

Suggested Readings:

1. Adhikari, S., (2015) *Fundamental of Geographical Thoughts. Orient Black Swan, New Delhi.*
2. Arentsen M., Stam R. and Thuijis R., 2000: *Post-modern Approaches to Space*, ebook.
3. Bhat, L.S. (2009) Geography in India (Selected Themes). Pearson
4. Bonnett A., (2008) *What is Geography?* Sage.
5. Dikshit R. D., (1997) Geographical Thought: A Contextual History of Ideas, Prentice– Hall India.
6. Hartshone R., (1959) *Perspectives of Nature of Geography*, Rand MacNally and Co.
7. Holt-Jensen A., (2011) *Geography: History and Its Concepts: A Students Guide*, SAGE.
8. Husain Majid, (2014) *Evolution of Geographical Thought.* Rawat Publ., Jaipur and New Delhi.
9. Johnston R. J., (Ed.): *Dictionary of Human Geography*, Routledge.
10. Johnston R. J., (1997) *Geography and Geographers, Anglo-American Human Geography since 1945*, Arnold, London.
11. Kapur A., (2001) *Indian Geography Voice of Concern*, Concept Publications.
12. Kaushik, S.D, (2012) *Bhaugoolik Vichardhara Avam Vidhitantra,* Rastogi Publication, Meerut.
13. Martin Geoffrey J., (2005) *All Possible Worlds: A History of Geographical Ideas*, Oxford.
14. Soja, Edward (1989) *Post-modern Geographies,* Verso, London. Reprinted 1997: Rawat Publ., Jaipur and New Delhi.

GEOGRAPHY
SEMESTER – VI

TYPE OF COURSE	:	**MJC- 11 (T)**	**FULL MARKS: 100**
NAME OF COURSE	:	**RESEARCH METHODOLOGY AND FIELD WORK**	**ESE- 70 MARKS**
CREDIT	:	**4**	**CIA- 30 MARKS**

Course Objectives:

1. To understand concept and various techniques of research methodology in geography;
2. Detailed analysis of different field survey techniques.
3. Understanding of the report writing and field tools.

Course Outcomes:

After learning, students will be able to:

1. Detailed exposure of new geographical landscape as study area.
2. In-depth knowledge of different field techniques.
3. Understanding the field ethics and different tools of field study.

UNIT	TOPICS	NUMBER OF LECTURES
I	Research - Meaning and its Types, Hypothesis, Research Methodology: Merits and demerits of Quantitative and Qualitative techniques.	12
II	Field Techniques: Merits, Demerits and Selection; Observation, Questionnaire, Schedule and Interview Method. Sampling and its Types.	10
III	Case Study Method of Research: Definition, Nature and Field Tools.	8
IV	Field Report: Aims and Objectives, Data Analysis, Interpretation and Report Writing. Bibliography.	10
	Total	**40**

Suggested Readings

1. Creswell J., (1994) *Research Design: Qualitative and Quantitative Approaches* Sage Publications.
2. Dikshit, R. D. (2003) The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi.
3. Evans M., (1988) "Participant Observation: The Researcher as Research Tool" in *Qualitative Methods in Human Geography*, eds. J. Eyles and D. Smith, Polity.
4. Kothari C.R., (2004) *Research Methodology Methods and Techniques*. New Age: New Delhi.
5. Mukherjee, Neela, (1993) *Participatory Rural Appraisal: Methodology and Application*. Concept Publs. Co., New Delhi.
6. Mukherjee, Neela (2002) *Participatory Learning and Action: with 100 Field Methods.* Concept Publs. Co., New Delhi
7. Robinson A., (1998) "*Thinking Straight and Writing That Way*", in *Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioural Sciences*, eds. by F. Pryczak and R. Bruce Pryczak, Publishing: Los Angeles.
8. Special Issue on *"Doing Fieldwork" The Geographical Review* 91:1-2(2001).
9. Stoddard R. H., (1982) *Field Techniques and Research Methods in Geography*. Kendall/Hunt.
10. Wolcott, H. (1995) *The Art of Fieldwork*. Alta Mira Press, Walnut Creek, CA.

Suggested Readings:-

1. Anson, R. and Ormelling, F. J., (1994) International Cartographic Association: Basic Cartographic Vol. Pregmen Press.
2. Gupta, K.K. and Tyagi, V. C., (1992) Working with Map, Survey of India, DST, New Delhi.
3. Maltiyar. K. K &Maltiyar S. R., (2019) Concept of Cartography, Remote Sensing and GIS, Rajesh publication, New Delhi.
4. Mishra, R.P. and Ramesh, A., (1989) Fundamentals of Cartography, Concept, NResource & Economic Geographyew Delhi.
5. Monkhouse, F. J. and Wilkinson H. R., (1973) Maps and Diagrams, Methuen, London.
6. Rhind, D. W. and Taylor D. R. F., (eds.), (1989) Cartography: Past, Present and Future, Elsevier, International Cartographic Association.
7. Robinson, A. H., (2009) Elements of Cartography, John Wiley and Sons, New York.
8. Sharma J. P., (2010) PrayogicBhugol, Rastogi Publishers, Meerut.
9. Singh R. L. and Singh R. P. B., (1999) Elements of Practical Geography, Kalyani Publishers, New Delhi.
10. Sinha. M.M. P., (2017) Ucch Cartography, Rajesh Publication, New Delhi.
11. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
12. Singh R L & Singh Rana P B, (1991) Prayogtmak Bhugol ke Mooltatva, Kalyani Publishers, New Delhi.
13. Sharma, J P (2010) PrayogtmakBhugolkiRooprekha, Rastogi Publications, Meerut.
14. Singh, R L & Dutta, P K (2012) PrayogatmakBhugol, Central Book Depot, Allahabad.

GEOGRAPHY

SEMESTER -VI

TYPE OF COURSE	:	**MJC-12 (T)**	**FULL MARKS: 100**
NAME OF COURSE	:	**REMOTE SENSING AND GIS**	**ESE: 70**
CREDIT	:	**3**	**CIA: 30**

Course Objectives:

1. The course aimsare to give basic technical knowledge and practical experience in digital remote sensing;
2. Knowledge and practical experience in handling satellite images focusing on hands-on experience of image pre-processing, enhancement and classification;
3. Better understanding the techniques for the study of land use land cover and urban study.

Course Outcomes:

After studying this course students will be able to:

1. Explain principles of remote sensing, different satellite systems and sensors;
2. Understand concept and methods of image processing, enhancement and classification and interpretation of satellite images;
3. Application of Image preprocessing techniques for land use land cover and urban studies.

UNIT	TOPICS	NO OF LECTURES
I	Remote Sensing: Basic Concept, Historic Development and Significance, Elements of Satellite Imageries.	07
II	Process and Stages of Remote Sensing: Electromagnetic Spectrum, Interaction of EMR with Earth Surface Features.	07
III	Sensors and their Types; Platforms; Application of Remote Sensing.	06
IV	Geographic Information System (GIS): Definition, Basic Elements, Functions and Uses, Raster and Vector data Structure, Application of GIS.	10
Total		**30**

Suggested Readings:

1. Campbell J. B., (2007) *Introduction to Remote Sensing*, Guildford Press.
2. Jensen J. R., (2004) *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.
3. Joseph, G. (2005) *Fundamentals of Remote Sensing*, United Press India.
4. Lillesand T. M., Kiefer R. W. and Chipman J. W., (2004) *Remote Sensing and Image Interpretation*, Wiley. (Wiley Student Edition).
5. Maltiyar. K. K &Maltiyar S. R., (2019) Concept of *Cartography, Remote Sensing and GIS*, Rajesh publication, New Delhi.
6. Nag P. and Kudra, M., (1998) *Digital Remote Sensing*, Concept, New Delhi.
7. Rees W. G., (2001) *Physical Principles of Remote Sensing*, Cambridge University Press.
8. Singh R. B. and Murai S., (1998) *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
9. Wolf P. R. and Dewitt B. A., (2000) *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.
10. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
11. Chauniyal, D.D. (2010) Sudur SamvedanevamBhogolik Suchana Pranali, Sharda Pustak Bhawan, Allahabad.



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SEMESTER -VI

TYPE OF COURSE	:	**MJC-12 (P)**	**FULL MARKS: 100**
NAME OF COURSE	:	**REMOTE SENSING AND GIS**	**ESE- 70 MARKS**
CREDIT	:	**2**	**CIA- 30 MARKS**

Course Objectives:

1. The course aim is to give basic technical knowledge and practical experience in digital remote sensing and GIS;
2. Knowledge and practical experience in handling spatial data;
3. Better understand the techniques for the study of land use land cover and urban study.

Course Outcomes:

This is a practical, hands-on course; after studying this course students will be able to:

1. Learning the use of GIS technique for image interpretation.

2. Create line, point and Polygon using GIS technique.

3. Application of Image processing technique for land use and land cover for urban studies.

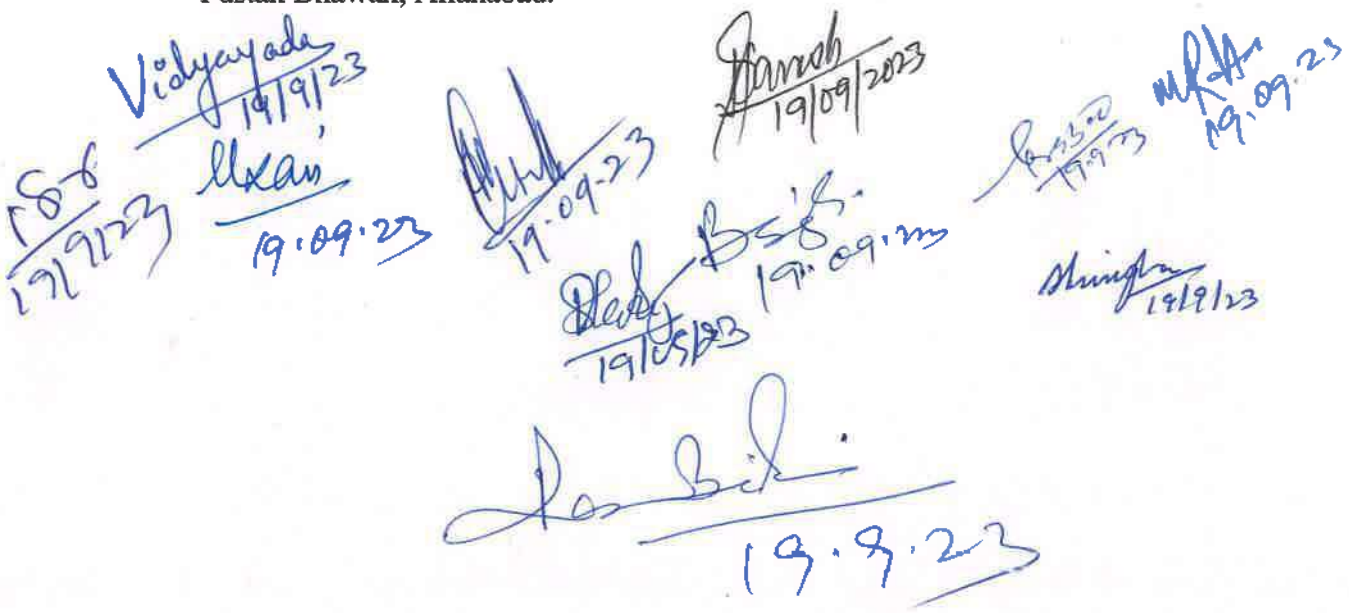
UNIT	TOPICS	NO OF LECTURES
I	Geo-referencing, Aerial Photo Interpretation.	6
II	Creating Point, Line and Shape files.	6
III	Creating Point Data from table; Creating Buffer,Choropleth Map, Satellite Image Classification and Interpretation.	8
IV	Practical Record and Viva-voce	-
	Total	**20**

Suggested Readings:

1. Campbell J. B., (2007) *Introduction to Remote Sensing*, Guildford Press.
2. Jensen J. R., (2004) *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.
3. Joseph, G. (2005) *Fundamentals of Remote Sensing*, United Press India.
4. Lillesand T. M., Kiefer R. W. and Chipman J. W., (2004) *Remote Sensing and Image*

Interpretation, Wiley. (Wiley Student Edition).

5. Maltiyar. K. K & Maltiyar S. R., (2019) Concept of *Cartography, Remote Sensing and GIS,* Rajesh publication, New Delhi.
6. Nag P. and Kudra, M., (1998) *Digital Remote Sensing*, Concept, New Delhi.
7. Rees W. G., (2001) *Physical Principles of Remote Sensing*, Cambridge University Press.
8. Singh R. B. and Murai S., (1998) *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
9. Wolf P. R. and Dewitt B. A., (2000) *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.
10. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
11. Chauniyal, D.D. (2010) Sudur Samvedan evam Bhogolik Suchana Pranali, Sharda Pustak Bhawan, Allahabad.



Massachusetts.

3. Friedmann J. and Alonso W. (1975) *Regional Policy - Readings in Theory and Applications*, MIT Press, Massachusetts.
4. Gore C. G., (1984) *Regions in Question: Space, Development Theory and Regional Policy*, Methuen, London.
5. Gore C. G., Köhler G., Reich U-P. and Ziesemer T., (1996) *Questioning Development: Essays on the Theory, Policies and Practice of Development Intervention*, Metropolis- Verlag, Marburg.
6. Haynes J., (2008) *Development Studies*, Polity Short Introduction Series.
7. Johnson E. A. J., (1970) *The Organization of Space in Developing Countries*, MIT Press, Massachusetts.
8. Peet R., (1999) *Theories of Development*, The Guilford Press, New York.
9. UNDP (2001-04) *Human Development Report*, Oxford University Press, New York.
10. World Bank (2001-05) *World Development Report*, Oxford University Press, New York.

GEOGRAPHY
SEMESTER – VII

TYPE OF COURSE	:	**MJC- 13 (T)**	**FULL MARKS: 100**
NAME OF COURSE	:	**REGIONAL PLANNING AND DEVELOPMENT**	**ESE- 70 MARKS**
CREDIT	:	**5**	**CIA- 30 MARKS**

Course Objectives:

1. To understand the concept of Region and Regional Planning;
2. To familiarize the students with Theories and Models for Regional Planning;
3. To develop understanding about concept of development and different programmes and policies of development and planning.

Course Outcomes:

After studying, students will be able to:

1. Conceptualize the Regional Planning and its theories.
2. Get the overview of Sustainable Regional Development.
3. Have sound knowledge for Development Policies and Programmes.

UNIT	TOPICS	NUMBER OF LECTURES
I	Concept of Region, Types of Regions, Regional Hierarchy, Need for Regional Planning.	10
II	Indicators of Development, Regional Disparity in India. Planning Region: Characteristics of an Ideal Planning Region. Regionalization: Concept and Methods of Delineation.	15
III	Planning of Remote and Problem Regions: Hilly Regions, Tribal Region and Flood Prone Region.	10
IV	Model of Regional Planning - Growth Pole Model of Perroux, Rostow's Model;Concept of PURA; Public participation in regional Planning;Panchayati Raj System.	15
Total		**50**

Suggested Reading:

1. Blij H. J. De, (1971) *Geography: Regions and Concepts*, John Wiley and Sons.
2. Claval P.I, (1998) *An Introduction to Regional Geography*, Blackwell Publishers, Oxford and

GEOGRAPHY

SEMESTER –VII

TYPE OF THE COURSE	**:**	**MJC-15 (T)**	**Full Marks: 100**
NAME OF THE COURSE	**:**	**DISASTER MANAGEMENT**	**ESE: 70**
CREDIT	**:**	**4**	**CIA: 30**

COURSE OBJECTIVES :

1. Understanding the basic concepts of disaster management;
2. Detailed analysis about the different types of disasters in India;
3. Evaluating the role of institutional frameworks to mitigate the disasters in the country.

COURSE OUTCOMES :

Aftercompletionofthecoursestudents willbe able to–

1. Understanding about the various disasters in the country.
2. Providing thorough understanding about the human responses to the disasters.
3. Human responses and mitigating measures to both natural and manmade disasters.
4. Understanding the processes of natural hazards and disasters.
5. Assessing the role of anthropogenic activities producing pollution.
6. Explaining different types of environmental crisis.

Learning Outcomes:

UNIT	TOPICS	No.of Lectures
I	Disasters: Definition and Concepts, Hazards and Disasters, Classification and Principles of disaster management, Components of disaster management, Risk and Vulnerability of disaster.	10
II	Natural Disasters in India: Causes, Impact and Distribution; Flood, Drought, Earthquake and Cyclone.	10
III	Human Induced Disasters: Technological and Industrial disasters, Moral disasters, Fire, Road Accidents; their responsible Causes and Impact.	10
IV	Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters, Disaster Warning System.	10
	Total	**40**

SUGGESTED READING:

1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
7. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
8. Singh Jagbir (2007) "Disaster Management Future Challenges and Oppurtunities", 2007. Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India (www.ikbooks.com).

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SEMESTER –VII

TYPE OF THE COURSE	**:**	**MJC-15 (P)**	**Full Marks: 100**
NAME OF THE COURSE	**:**	**DISASTER MANAGEMENT**	**ESE: 70**
CREDIT	**:**	**2**	**CIA: 30**

COURSE OBJECTIVES :

1. Understanding the basic concepts of disaster management;
2. Detailed analysis about the different types of disasters in India;
3. Evaluating the role of institutional frameworks to mitigate the disasters in the country.

COURSE OUTCOMES :

After completion of the course, students will be able to–

1. Understanding about the various disasters in the country.
2. Providing thorough understanding about the human responses to the disasters.
3. Human responses and mitigating measures to both natural and manmade disasters.
4. Understanding the processes of natural hazards and disasters.
5. Explaining different types of environmental crisis.

ESE will consists of 70 marks out of which 40 marks will be on written test and 30 marks for Viva-voce on Project Report.

UNIT	TOPICS	No.of Lectures
I	Field Work and Preparation of Project Report on any one of the following: Flood, Drought, Earthquake, Erosion by rivers, Human Induced Disasters: Fire Hazards, Electric shorts, Bursting of domestic Gas Cylinder, Chemical disasters, Industrial accidents, Road – Rail accidents, Problem of solid Waste.	10
II	Natural Disasters in India: Causes, Impact and Distribution; Flood, Drought, Earthquake and Cyclone.	10
III	Project Report and Viva -voce	
	Total	**20**

Suggested Reading :

1. Government of India. (1997) *Vulnerability Atlas of India.* New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) *Vulnerable India: A Geographical Study of Disasters*, Sage Publication, New Delhi.
3. Modh, S. (2010) *Managing Natural Disaster: Hydrological, Marine and Geological Disasters,* Macmillan, Delhi.
4. Singh, R.B. (2005) *Risk Assessment and Vulnerability Analysis*, IGNOU, New Delhi. Chapter 1, 2 and 3
5. Singh, R. B. (ed.), (2006) *Natural Hazards and Disaster Management: Vulnerability and Mitigation*, Rawat Publications, New Delhi.
6. Sinha, A. (2001). *Disaster Management: Lessons Drawn and Strategies for Future,* New United Press, New Delhi.
7. Stoltman, J.P. et al. (2004) *International Perspectives on Natural Disasters,* Kluwer Academic Publications. Dordrecht.
8. Singh Jagbir (2007) *Disaster Management Future Challenges and Opportunities.* Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India (www.ikbooks.com).
9. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
10. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.

GEOGRAPHY

SEMESTER –VII

TYPE OF COURSE	:	**MJC-16 (T)**	**Full Marks: 100**
NAME OF COURSE	:	**SOCIAL GEOGRAPHY**	**ESE - 70 Marks**
CREDIT	:	**4**	**CIA - 30 Marks**

COURSE OBJECTIVES:

1. To familiarise the student with the theoretical foundations and conceptual grounding of unique of social geography.
2. To appreciate the roles of geographic factors in socio-cultural diversity in terms of caste, class, religion etc.
3. To analyse in details the social wellbeing, problems and welfare programmes and policies.

COURSE OUTCOMES:

After studying, students will be able to:

1. Get Knowledge of the social geography and social diversity.
2. Appraise the key concepts of social geography in regional context; geographic factors underlying patterns of social well-being and inclusive development.
3. Explain the social problems and the welfare programs and policies.

UNIT	TOPICS	No. of Lectures
I	Social Geography: Concept, Nature and Scope, Migration: Causes and Consequences.	10
II	Social Categories: Caste, Religion, Race - their Spatial distribution.	10
III	Geography of Welfare and Social Wellbeing: Concept and Components, Healthcare, Housing and Education –Concept and Problems.	10
IV	Geography of Social Inclusion and Exclusion, Slums & Social Conflicts, Social Planningin india.	10
	TOTAL	40

Suggested Readings:-

1. Ahmed A., (1999) *Social Geography*, Rawat Publications.
2. Casino V. J. D. Jr., (2009) *Social Geography: A Critical Introduction*, Wiley Blackwell.
3. Cater J. and Jones T., (2000) *Social Geography: An Introduction to Contemporary Issues*, Hodder Arnold.
4. Holt L., (2011) *Geographies of Children, Youth and Families: An International Perspective*, Taylor & Francis.
5. Panelli R., (2004) *Social Geographies: From Difference to Action*, Sage.
6. Rachel P., Burke M., Fuller D., Gough J., Macfarlane R. and Mowl G., (2001) *Introducing*

Social Geographies, Oxford University Press.

7. Smith D. M., (1977) *Human geography: A Welfare Approach*, Edward Arnold, London.
8. Smith D. M., (1994) *Geography and Social Justice*, Blackwell, Oxford.
9. Smith S. J., Pain R., Marston S. A., Jones J. P., (2009) *The SAGE Handbook of Social Geographies*, Sage Publications.
10. Sopher, David (1980): *An Exploration of India*, Cornell University Press, Ithasa
11. Valentine G., (2001) *Social Geographies: Space and Society*, Prentice Hall.

GEOGRAPHY

SEMESTER –III

TYPE OF COURSE	:	**MIC-3 (T)**	**Full Marks: 100**
NAME OF COURSE	:	**ECONOMIC GEOGRAPHY**	**ESE - 70 Marks**
CREDIT	:	**2**	**CIA - 30 Marks**

COURSE OBJECTIVES:

1. To understand the concept and spatial distribution of economic activities in the world.
2. To analyse the factors affecting the economics activities.
3. To describe in details the spatial pattern of economic activities.

COURSE OUTCOMES:

After learning, students should be able to:

1. Distinguish to different types of economic activities and their utilities.
2. Examine the significance and relevance of economic activities for the progress of Mankind.

UNIT	TOPICS	No. of Lectures
I	Meaning and Scope of Economic Geography: Concept and Classification of Economic Activities- Primary, Secondry and Tertiary.	08
II	Intensive Subsistence Farming and Commercial Grain Farming, Major Industries - Iron and Steel, Cotton Textile Industry.	06
III	International Trade and WTO; Special Economic Zone (SEZ)	06
	TOTAL	20

Suggested Readings:-

1. Alexander J. W., (1963) *Economic Geography*, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
2. Combes P., Mayer T. and Thisse J. F., (2008) *Economic Geography: The Integration of Regions and Nations*, Princeton University Press.
3. Wheeler J. O., (1998) *Economic Geography*, Wiley..
4. Bagchi-Sen S. and Smith H. L., (2006) *Economic Geography: Past, Present and Future*, Taylor and Francis.
5. Singh K.N.& Jagdish Singh (2020)., *Aarthik Bhugol ke Mool Tatva*, Prayag Publication.
6. Jatt B.C., (2020) *Aathik Bhugol*.. Mallik Book Company Jaypur.
7. Gautam Alka., (2022) *Aarthik bhugol ke mool tatv*, Sharda Pustak Bhawan, Prayagraj.
8. Maurya S.D., *Aarthik Bhugol*., Pravalika Publication.

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SEMESTER –III

TYPE OF COURSE	:	**MIC-3 (P)**	**Full Marks: 100**
NAME OF COURSE	:	**ECONOMIC GEOGRAPHY**	**ESE - 70 Marks**
CREDIT	:	**1**	**CIA - 30 Marks**

Course Objectives:

1. Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions;
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes;
3. Better understanding of the techniques for interpretation of topographical and weather maps.

Course Outcomes:

This is a practical, hands-on course; when students complete it, they will be able to:

1. Explain how diagram works.
2. Recognize the benefits and limitations of some common map projections.
3. To Understand how prismatic compass survey work.

UNIT	TOPICS	No. of Lectures
I	Scale, R.F and Maps.	05
II	Diagrams – Bar diagram and Pie diagram, Map Projection – Simpal Conical.	05
III	Record of Practical Work & Viva-voce.	--
	TOTAL	**10**

Suggested Readings:-

1. Anson R. and Ormelling F. J., (1994) *International Cartographic Association: BasicCartographic Vol.* Pregmen Press.
2. Gupta K.K. and Tyagi, V. C., (1992) *Working with Map*, Survey of India, DST, New Delhi.
3. Maltiyar, K. K & Maltiyar S. R., (2019) Concept of *Cartography, Remote Sensing and GIS*, Rajesh publication, New Delhi.
4. Mishra R.P. and Ramesh, A., (1989) *Fundamentals of Cartography*, Concept, N Resource & Economic Geography ew Delhi.
5. Monkhouse F. J. and Wilkinson H. R., (1973) *Maps and Diagrams*, Methuen, London.
6. Rhind D. W. and Taylor D. R. F., (eds.), (1989) *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
7. Robinson A. H., (2009) *Elements of Cartography*, John Wiley and Sons, New York.
8. Sharma J. P., (2010) *Prayogic Bhugol*, Rastogi Publishers, Meerut.
9. Singh R. L. and Singh R. P. B., (1999) *Elements of Practical Geography*, Kalyani Publishers, New Delhi.

10. Sinha. M.M. P., (2017) *Ucch Cartography, Rajesh Publication, New Delhi.*
11. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
12. Singh R L & Singh Rana P B, (1991) Prayogtmak Bhugol ke Mool Tatva, Kalyani Publishers, New Delhi.
13. Sharma, J P (2010) Prayogtmak Bhugol ki Rooprekha, Rastogi Publications, Meerut.
14. Singh, R L & Dutta, P K (2012) Prayogatmak Bhugol, Central Book Depot, Allahabad.

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SEMESTER – IV

TYPE OF COURSE	:	**MIC-4 (T)**	**Full Marks: 100**
NAME OF COURSE	:	**Population Geography**	**ESE: 70**
CREDIT	:	**2**	**CIA: 30**

COURSE OBJECTIVES:

1. To bring an understanding among students about the relevant population data
2. To aware students about current population issues and its causes

COURSE OUTCOME:

Aftercompletionofthecoursestudents willbe able to–

1. Understand the various demographic data
2. Understand the role of population dynamics in shaping our countries population
3. Critically analyze the current contemporary population issues and its implication in our society

Unit	Topics	No. of Lectures
I	Population Geography: Meaning, Nature and Scope, Types and Sources of Population Data, Population Studies and Demography	6
II	Population Dynamics: Fertility, Mortality and Migration- Causes and effects	4
III	Population Composition: Age -Sex Structure, Rural and Urban Composition, Occupational Structure, Literacy, Religion and Language	4
IV	Contemporary Population Issues: Aging Population, Declining Sex Ratio, Declining Fertility, Invisible Population and Population Policies	6
Total		**20**

Suggested Readings:

1. Barrett H. R., (1995) *Population Geography*, Oliver and Boyd.
2. Bhende A. and Kanitkar T., (2000) *Principles of Population Studies*, Himalaya Publishing House.
3. Chandna R. C. and Sidhu M. S., (1980) *An Introduction to Population Geography*, Kalyani Publishers.
4. Clarke J. I., (1965) *Population Geography*, Pergamon Press, Oxford.
5. Jones, H. R., (2000) *Population Geography,* 3rd ed. Paul Chapman, London.

6. Lutz W., Warren C. S. and Scherbov S., (2004) *The End of the World Population Growth in the 21st Century*, Earthscan
7. Newbold, K. B., (2009) *Population Geography: Tools and Issues*, Rowman and Littlefield Publishers.
8. Pacione, M., (1986) *Population Geography: Progress and Prospect*, Taylor and Francis.
9. Wilson, M. G. A., (1968) *Population Geography*, Nelson.
10. Panda, B. P., (1988) *JanasankyaBhugol*, M P Hindi Granth Academy,Bhopal.
11. Maurya, S. D., (2009) *JansankyaBhugol*, Sharda Putak Bhawan, Allahabad.
12. Chandna, R. C., (2006) *JansankhyaBhugol*, Kalyani Publishers, Delhi.

GEOGRAPHY

SEMESTER – IV

TYPE OF COURSE	**:**	**MIC-4 (P)**	**Full Marks: 100**
NAME OF COURSE	**:**	**Population Geography**	**ESE: 70**
CREDIT	**:**	**1**	**CIA: 30**

COURSE OBJECTIVES:

1. Introduce the basic graphical diagrams associated with the use of population data.
2. Various population projection methods

COURSE OUTCOME:

Aftercompletionofthecoursestudents willbe able to–

1. Learn different graphical diagrams associated with population data
2. Calculate the different population projection methods

Unit	Topics	No. of Lectures
I	Population Distribution: Age-Sex Pyramid, Dot Method, Choropleth Map	4
I	Methods of Population Projection, Doubling Time of Population	4
II	Representation of Population Data: Bar diagram, Pie Diagram	2
III	Practical Records and Viva-Voce	-
Total		10

Suggested Readings:

1. Gupta K. K. and Tyagi V. C., (1992)*Working with Maps*, Survey of India, DST, New Delhi.
2. Kraak M.-J. and Ormeling F., (2003)*Cartography. Visualization of Geo-Spatial Data*, Prentice-Hall New Delhi.
3. Sharma J. P., (2010)*PrayogikBhugol*, Rastogi Publishers, Meerut.
4. Singh R. L. and Singh R. P. B., (1999)*Elements of Practical Geography*, Kalyani Publishers, New Delhi.
5. Tyner J. A., (2010)*Principles of Map Design*, The Guilford Press.
6. Sarkar, A. (2015) *Practical geography: A Systematic Approach.* Orient Black Swan Private Ltd., New Delhi.
7. Singh, L R & Singh R (1977): *Manchitra or PryaogatamekBhugol,* Central Book, Depot, Allahabad.

8. Bhopal Singh R L and Dutta P K (2012) PrayogatamaBhugol, Central Book Depot, Allahabad.

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SEMESTER – IV

TYPE OF COURSE	:	**MIC-5 (T)**	**Full Marks: 100**
NAME OF COURSE	:	**Human Geography**	**ESE: 70**
CREDIT	:	**3**	**CIA: 30**

COURSE OBJECTIVES:

1. To understand the concept of human communities, culture and its relationship with environment.
2. To examine the Contemporary relevance of environmental thoughts.
3. To give a detailed eye-view on migration and settlement pattern

COURSE OUTCOME:

Aftercompletionofthecoursestudents willbe able to–

1. Get a complete idea of space and place
2. Conceptualize the trends and pattern of Migration and settlement types
3. Recent trend of urbanization level

Unit	Topics	No. of Lectures
I	Human Geography: Definition, Nature and Scope; Determinism, Possibilism and Neo Determinism	6
II	Population: Population Composition, Growth, Density and Distribution (World); Population Theoryof Malthus; Demographic Transition Theory; Migration: Types, Causes andConsequences	12
III	Settlements: Types and Pattern of Rural Settlements; Classification of Urban Settlements based on Function and Size; Trends and Patterns of Urbanization	12
Total		**30**

Suggested Readings: -

1. Bergwan, Edward E., Human Geography: Culture. Connections and Landscape, Prentice Hall, New Jersey. 1995
2. Carr, M., Patterns, Process and change in Human Geography, MacMillan Education, London, 1987
3. Chandna R.C. 2022. Geography of Population, Part 1: Concepts, Determinants and World Patterns,Kalyani Publishers.

4. Dorrel, D., Henderson, P. 2018. Introduction to Human Geography. University of Georgia Press.
5. Hassan, M. I. (2005) Population Geography, Rawat Publication, Jaipur.
6. Fouberg, E.H., Nash, A.B., Murphy, A.B., de Blij, H., 2015. Human Geography: People, Place, and Culture, 11th ed, Wiley.
7. Ghosh S. 1998. An Introduction to Settlement Geography, Sangam Books Ltd.
8. Gregory, D., Johnston, R., Pratt, G., Watts, K., Whatmore, S. (Eds) 2009. The Dictionary of Human Geography, 5th ed, Wiley-Blackwell.
9. Knox, P.L., Marston, S.A. 2014. Human Geography, Places and Regions in Global Context, 6th ed, Pearson Education.
10. Majumdar, P.K. 2013. India's Demography: Changing Demographic Scenario in India, RawatPublications
11. Mercier, M., Norton, W. 2019. Human Geography, 10th ed, Oxford University Press.
12. Paul, C., Crang, P., Goodwine, M.G. 2014, Introducing Human Geographies, 3rd ed, Routledge.
13. Rubenstein J.M., 2018, Contemporary Human Geography, 4th ed, Pearson.
14. Rubenstein, J.H. and Bacon, R.S., The Cultural Landscape -A Introduction to Human geography, Prenice Hall, India, New Delhi, 1990
15. Short, R.J. 2017. Human Geography: A Short Introduction, 2nd ed, Oxford University Press.
16. Sing, R.Y. 2009, A Geography of Settlements, Rawat Publications.
17. Census of India, Tribes (2011), https://censusindia.gov.in/census.website/

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SEMESTER –IV

TYPE OF COURSE	**:**	**MIC-6 (T)**	**Full Marks: 100**
NAME OF THE COIURSE:		**Geography of India and Bihar**	**ESE: 70**
CREDIT	**:**	**2**	**CIA: 30**

COURSE OBJECTIVES :

1. Various dimensions of the geographical features of India and their spatial distribution.
2. Detailed analysis of Natural resources of India
3. Understanding of regional divisions of India

COURSEOUTCOMES :

Aftercompletionofthecoursestudents willbe able to-

1. Get an overview of Geography of India and Bihar
2. Able to learn the India's rich minerals and industrial assets
3. Able to link the current economic development of India
4. Comprehensive knowledge about Bihar with facts and figures

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Unit	Topics	No. of Lectures
I	India: Relief and Structure; Major Drainage System: Himalayan and Peninsular rivers	6
II	Climate: Origin and Mechanism of Monsoon; Type of Soils and Natural Vegetation	4
III	Agricultural Industry: Jute, Cotton, Sugar and Paper Industry	4
IV	Geography of Bihar: Structure and Physiography, Population: Growth and Distribution, Agriculture Regions, Flood and Drought	6
Total		**20**

Suggested Readings:

1. Deshpande C. D., 1992: *India: A Regional Interpretation*, ICSSR, New Delhi.
2. Johnson, B. L. C., ed. 2001. *Geographical Dictionary of India*. Vision Books, New Delhi.
3. Mandal R. B. (ed.), 1990: *Patterns of Regional Geography – An Intenational Perspective. Vol. 3 – Indian Perspective.*
4. Sdyasuk Galina and P Sengupta (1967): *Economic Regionalisation of India*, Census of India.
5. Sharma, T. C. 2003: India - Economic and Commercial Geography. Vikas Publ., New Delhi.
6. Singh R. L., 1971: *India: A Regional Geography*, National Geographical Society of India.

7. Singh, Jagdish 2003: *India - A Comprehensive & Systematic Geography*, GyanodayaPrakashan, Gorakhpur.
8. Spate O. H. K. and Learmonth A. T. A., 1967: *India and Pakistan: A General and Regional Geography*, Methuen.
9. Sinha, V.N.P et.al., (2013), Bihar: Land, People and Economy, Rajesh Publication, New Delhi
10. Sinha, V.N.P et.al., (2014), Bihar Ka Bhugol, Rajesh Publication, New Delhi
11. Sharma, Nandeshwar (2007), Bihar ki BhaugoalikSamisksha, Vasundhara Prakashan, Gorakhpur

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SEMESTER –IV

TYPE OF COURSE	**:**	**MIC-6 (P)**	**Full Marks: 100**
NAME OF COURSE	**:**	**Geography of India and Bihar**	**ESE: 70**
CREDIT	**:**	**1**	**CIA: 30**

COURSE OBJECTIVES :

1. Introduce the basic graphical diagrams associated with the use of population data.
2. Use of Toposheet maps

COURSE OUTCOME:

Aftercompletionofthecoursestudents willbe able to–

1. Learn different graphical diagrams associated with population data
2. Identify and Interpret the physical and cultural features on toposheet map

Unit	Topics	No. of Lectures
I	Bar Diagrams: Simple, Multiple and Compound; Pie Diagram and Band Graph	4
II	Graphical Presentation of Statistical Data: Age-Sex Pyramid, Dot Method, Proportionate Circle Diagram	4
III	Toposheet: Interpretation of Physical and Cultural Features	2
IV	Practical Record and Viva-Voce	-
Total		**10**

Suggested Readings:

1. Gupta K. K. and Tyagi V. C., (1992) *Working with Maps*, Survey of India, DST, New Delhi.
2. Kraak M.-J. and Ormeling F., (2003) *Cartography: Visualization of Geo-Spatial Data*, Prentice-Hall New Delhi.
3. Sharma J. P., (2010) *PrayogicBhugol*, Rastogi Publishers, Meerut.
4. Singh R. L. and Singh R. P. B., (1999) *Elements of Practical Geography*, Kalyani Publishers, New Delhi.
5. Tyner J. A., (2010) *Principles of Map Design*, The Guilford Press.
6. Sarkar, A. (2015) *Practical geography: A Systematic Approach.* Orient Black Swan Private Ltd., New Delhi.

7. Singh, L R & Singh R (1977): *Manchitra or PryaogatamekBhugol,* Central Book, Depot, Allahabad.
8. Bhopal Singh R L and Duttta P K (2012) PrayogatamaBhugol, Central Book Depot, Allahabad.

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SEMESTER – VI

TYPE OF COURSE	:	**MIC- 07 (T)**	**FULL MARKS: 100**
NAME OF COURSE	:	**REGIONAL PLANNING AND DEVELOPMENT**	**ESE- 70 MARKS**
CREDIT	:	**04**	**CIA- 30 MARKS**

Course Objectives:

1. To understand the concept of Region and Regional Planning;
2. To familiarize the students with Theories and Models for Regional Planning;
3. To develop understanding about concept of development and different programmes and policies of development and planning.

Course Outcomes:

After studying, students will be able to:

1. Conceptualize the Regional Planning and its theories.
2. Get the overview of Sustainable Regional Development.
3. Have sound knowledge for Development Policies and Programmes.

UNIT	TOPICS	NUMBER OF LECTURES
I	Concept of Region, Types of Regions, Need for Regional Planning.	11
II	Indicators of Development and Regional Disparity in India.	09
III	Growth Pole Model of Perroux; Concept of PURA; Planning Regions: Hilly Regions and Flood Prone Regions.	12
IV	Multilevel Planning; Panchayati Raj Institutions. Prime Ministers Gramin Sadak Yojna.	08
Total		40

Suggested Reading:

1. Blij H. J. De, (1971) *Geography: Regions and Concepts*, John Wiley and Sons.
2. ClavalP.l, (1998) *An Introduction to Regional Geography*, Blackwell Publishers, Oxford and Massachusetts.
3. Friedmann J. and Alonso W. (1975) *Regional Policy - Readings in Theory and Applications*, MIT Press, Massachusetts.

4. Gore C. G., (1984) *Regions in Question: Space, Development Theory and Regional Policy*, Methuen, London.

5. Gore C. G., Köhler G., Reich U-P. and Ziesemer T., (1996) *Questioning Development; Essays on the Theory, Policies and Practice of Development Intervention*, Metropolis- Verlag, Marburg.

6. Haynes J., (2008) *Development Studies*, Polity Short Introduction Series.

7. Johnson E. A. J., (1970) *The Organization of Space in Developing Countries*, MIT Press, Massachusetts.

8. Peet R., (1999) *Theories of Development*, The Guilford Press, New York.

9. UNDP (2001-04) *Human Development Report*, Oxford University Press, New York.

10. World Bank (2001-05) *World Development Report*, Oxford University Press, New York.

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SEMESTER –VI

TYPE OF COURSE	:	**MIC-8 (P)**	**Full Marks: 100**
NAME OFCOURSE	:	**Statistical Methods in Geography**	**ESE: 70**
CREDIT	:	**2**	**CIA: 30**

COURSE OBJECTIVES:

1. To enable the students to differentiate between quantitative and qualitative information
2. To enable students with the nature of various data, different sources and methods of data collection
3. To apply the sampling methods for data collection

COURSE OUTCOME:

After completion of the course students will be able to-

1. Present statistical data in diagrammatic and graphical form
2. Distinguish between dependent and independent variable

Unit	Topics	No. of Lectures
I	Measurement of Central Tendency: Mean, Median, Mode and Centro-Graphic Techniques- Histogram and Frequency Polygon	6
II	Measures of dispersion: Range, Mean Deviation, Standard Deviation, Quartile Deviation	6
III	Correlation - Karl Pearson's Coefficient of Correlation, Spearman's Rank Correlation and Scatter Diagram; Regression Analysis	8
IV	Practical Record and Viva-Voce	-
Total		**20**

Suggested Readings:

1. Berry B. J. L. and Marble D. F. (eds.): *Spatial Analysis – A Reader in Geography.*
2. Ebdon D., (1977) *Statistics in Geography: A Practical Approach.*
3. Hammond P. and McCullagh P. S., (1978) *Quantitative Techniques in Geography: An Introduction,* Oxford University Press.
4. King L. S., (1969) *Statistical Analysis in Geography*, Prentice-Hall.
5. Mahmood A., (1977) *Statistical Methods in Geographical Studies,* Concept.
6. Pal S. K., (1998) *Statistics for Geoscientists,* Tata McGraw Hill, New Delhi.
7. Sarkar, A. (2013) Quantitative geography: techniques and presentations. Orient Black Swan Private Ltd., New Delhi

8. Silk J., (1979) *Statistical Concepts in Geography*, Allen and Unwin, London.
9. Spiegel M. R.: Statistics, *Schaum's Outline Series.*
10. Yeates M., (1974) An *Introduction to Quantitative Analysis in Human Geography*, McGraw Hill, New York.
11. Shinha, Indira (2007) Sankhyiki bhugol. Discovery Publishing House, New Delhi

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SEMESTER –VII

TYPE OF THE COURSE : **MIC-9 (T)** **Full Marks: 100**
NAME OF THE COURSE : **ENVIRONMENTAL GEOGRAPHY** **ESE: 70**
CREDIT : **3** **CIA: 30**
COURSE OBJECTIVES :

1. To understand the Environmental Geography, its concepts and Components.
2. To critically examine Environmental pollution.
3. To provide a theoretical and empirical framework for understanding environmental law.

COURSE OUTCOMES :

Aftercompletionofthecoursestudents willbe able to-

1: Develop an idea about Environment and different fundamental concepts
2: Understand different process of pollution.
3: Assess the role of anthropogenic activities producing pollution.
4: Explain different types of environmental crisis.
5: Understand the processes of natural hazards and disasters.

UNIT	TOPICS	No. of Lectures
I	Environmental Geography : Meaning and Scope, Ecology and Eco-system, Terrestrial and Aquatic Eco-system	8
II	Environmental pollution : Air pollution, Water pollution, Noise pollution, Soil pollution, and their remedial measures, International standard of Drinking water	8
III	Environmental crisis: causes and mitigation, Major global Environmental issues with special reference to India: Ozone layer Depletion, Natural disasters: Drought, Flood.	8
IV	Cleaning of rivers, Contamination of water: Arsenic and Fluorides, Natural hazards and disasters, Radiation Hazards, Acid rain.	6
	Total	**30**

Suggested Readings:-

1. Chandna R. C., (2002)*Environmental Geography*, Kalyani, Ludhiana.
2. Cunninghum W. P. and Cunninghum M. A., (2004)*Principals of EnvironmentalScience: Inquiry and Applications*, Tata Macgraw Hill, New Delhi.
3. Goudie A., (2001)*The Nature of the Environment*, Blackwell, Oxford.
4. Mal, Suraj., and Singh, R.B. (Eds.) (2009) *Biogeography and Biodiversity.*Rawat Publication, Jaipur.
5. Miller G. T., (2004)*Environmental Science: Working with the Earth,* Thomson BrooksCole, Singapore.
6. MoEF, (2006)*National Environmental Policy-2006,* Ministry of Environment andForests, Government of India.
7. Singh, R.B. and Hietala, R. (Eds.) (2014) Livelihood security in Northwestern Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh, India. Advances in Geographical and Environmental Studies, Springer.
8. Odum, E. P. et al, (2005)*Fundamentals of Ecology,* Ceneage Learning India.
9. Singh S., (1997)*Environmental Geography,* PrayagPustakBhawan. Allahabad.
10. UNEP, (2007)*Global Environment Outlook: GEO4: Environment for Development,* United Nations Environment Programme.
11. Singh, M., Singh, R.B. and Hassan, M.I. (Eds.) (2014) Climate change and biodiversity: Proceedings of IGU Rohtak Conference, Volume 1. Advances in Geographical and Environmental Studies, Springer
12. Singh, R.B. (1998) Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub..
13. Singh, Savindra 2001. *ParyavaranBhugol,* PrayagPustakBhawan, Allahabad. (in Hindi).

GEOGRAPHY

SEMESTER –VII

TYPE OF THE COURSE : MIC-9 (P) **Full Marks: 100**

NAME OF THE COURSE : ENVIRONMENTAL GEOGRAPHY **ESE: 70**

CREDIT : 1 **CIA: 30**

COURSE OBJECTIVES :

1. To understand the Environmental issues, its concepts and Components.
2. To examine Environmental issues critically.
3. To provide a theoretical and empirical framework for understanding environmental law.

COURSE OUTCOMES :

Aftercompletionofthecoursestudents willbe able to-

1: Develop an idea about Environment and different fundamental concepts

2: Understand different process of pollution.

3: Assess the role of anthropogenic activities producing pollution.

UNIT	TOPICS	No.of Lectures
I	Interpretation of Weather map, Hythergraph, Climograph, Wind Rose	5
II	Field work and Preparation of Project Report on local environmental issues	5
III	Record of Practical work and Viva -voce	
	Total	**10**

Suggested Readings:-

1. Chandna R. C., (2002)*Environmental Geography*, Kalyani, Ludhiana.
2. Cunninghum W. P. and Cunninghum M. A., (2004)*Principals of EnvironmentalScience: Inquiry and Applications*, Tata Macgraw Hill, New Delhi.
3. Goudie A., (2001)*The Nature of the Environment*, Blackwell, Oxford.
4. Mal, Suraj., and Singh, R.B. (Eds.) (2009) *Biogeography and Biodiversity.*Rawat Publication, Jaipur.
5. Miller G. T., (2004)*Environmental Science: Working with the Earth,* Thomson BrooksCole, Singapore.
6. MoEF, (2006)*National Environmental Policy-2006,* Ministry of Environment andForests, Government of India.
7. Singh, R.B. and Hietala, R. (Eds.) (2014) Livelihood security in Northwestern Himalaya: Case studies from changing socio-econoinic environments in Himachal Pradesh, India. Advances in Geographical and Environmental Studies, Springer.
8. Odum, E. P. et al, (2005)*Fundamentals of Ecology,* Ceneage Learning India.
9. Singh S., (1997)*Environmental Geography,* PrayagPustakBhawan. Allahabad.
10. UNEP, (2007)*Global Environment Outlook: GEO4: Environment for Development,* United Nations Environment Programme.
11. Singh. M., Singh, R.B. and Hassan, M.I. (Eds.) (2014) Climate change and biodiversity: Proceedings of IGU Rohtak Conference, Volume 1. Advances in Geographical and Environmental Studies, Springer
12. Singh, R.B. (1998) Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub..
13. Singh, Savindra 2001. *ParyavaranBhugol,* PrayagPustakBhawan, Allahabad. (in Hindi).

GEOGRAPHY

SEMESTER -VIII

TYPE OF COURSE	:	**MIC-10 (T)**	**FULL MARKS: 100**
NAME OF COURSE	:	**REMOTE SENSING AND GIS**	**ESE- 70 MARKS**
CREDIT	:	**03**	**CIA- 30 MARKS**

Course Objectives:

1. The course aim is to give basic technical knowledge and practical experience in digital remote sensing;
2. Knowledge and practical experience in handling satellite images focusing on hands-on experience of image pre-processing, enhancement and classification;
3. Better understand the techniques for the study of land use land cover and urban study.

Course Outcomes:

This is a practical, hands-on course; after studying this course students will be able to:

1. Explain principles of remote sensing, different satellite systems and sensors;
2. Understand concept and methods of image processing, enhancement and classification and interpretation of satellite images;
3. Application of Image preprocessing techniques for land use land cover and urban studies.

UNIT	TOPICS	NO OF LECTURES
I	Remote Sensing. Meaning and Concepts, Historic Development, Significance and Utility of Remote Sensing.	07
II	Electromagnetic Spectrum, Types of Spectrums, Reflectance and Spectral Signature.	07
III	Sensors, Platforms, Application of Remote Sensing	07
IV	Geographic Information System (GIS): Definition, Basic Functions and Uses, Basic Elements of GIS, Application of GIS.	09
Total		30

Suggested Readings:

1. Campbell J. B., (2007) *Introduction to Remote Sensing*, Guildford Press.
2. Jensen J. R., (2004) *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.
3. Joseph, G. (2005) *Fundamentals of Remote Sensing*, United Press India.
4. Lillesand T. M., Kiefer R. W. and Chipman J. W., (2004) *Remote Sensing and Image Interpretation*, Wiley. (Wiley Student Edition).
5. Maltiyar. K. K & Maltiyar S. R., (2019) Concept of *Cartography, Remote Sensing and GIS,* Rajesh publication, New Delhi.
6. Nag P. and Kudra, M., (1998) *Digital Remote Sensing*, Concept, New Delhi.
7. Rees W. G., (2001) *Physical Principles of Remote Sensing*, Cambridge University Press.
8. Singh R. B. and Murai S., (1998) *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
9. Wolf P. R. and Dewitt B. A., (2000) *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.
10. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
11. Chauniyal, D.D. (2010) Sudur Samvedan evam Bhogolik Suchana Pranali, Sharda Pustak Bhawan, Allahabad.

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SEMESTER -VIII

TYPE OF COURSE	:	**MIC- 10 (P)**	**FULL MARKS: 100**
NAME OF COURSE	:	**REMOTE SENSING AND GIS**	**ESE- 70 MARKS**
CREDIT	:	**01**	**CIA- 30 MARKS**

Course Objectives:

1. The course aim is to give basic technical knowledge and practical experience in digital remote sensing;
2. Knowledge and practical experience in handling satellite images focusing on hands-on experience of image pre-processing, enhancement and classification;
3. Better understand the techniques for the study of land use land cover and urban study.

Course Outcomes:

After studying this course students will be able to:

1. Understand and Interpret Aerial Photograph.
2. Know about the Application of Image preprocessing techniques for land use land cover and urban studies.

UNIT	TOPICS	NO OF LECTURES
I	Aerial Photo Interpretation, Elements of Interpretations.	3
II	Satellite Image Interpretation, Digital Image Processing.	3
III	Procedure of Geo-referencing and Digitization.	4
IV	Practical Record and Viva-voce	–
Total		10

Reading List

1. Campbell J. B., (2007) *Introduction to Remote Sensing*, Guildford Press.
2. Jensen J. R., (2004) *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.

3. Joseph, G. (2005) *Fundamentals of Remote Sensing*, United Press India.
4. Lillesand T. M., Kiefer R. W. and Chipman J. W., (2004) *Remote Sensing and Image Interpretation*, Wiley. (Wiley Student Edition).
5. Maltiyar. K. K & Maltiyar S. R., (2019) Concept of *Cartography, Remote Sensing and GIS,* Rajesh publication, New Delhi.
6. Nag P. and Kudra, M., (1998) *Digital Remote Sensing*, Concept, New Delhi.
7. Rees W. G., (2001) *Physical Principles of Remote Sensing*, Cambridge University Press.
8. Singh R. B. and Murai S., (1998) *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
9. Wolf P. R. and Dewitt B. A., (2000) *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.
10. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
11. Chauniyal, D.D. (2010) Sudur Samvedan evam Bhogolik Suchana Pranali, Sharda Pustak Bhawan, Allahabad.

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:-**Regarding submission of proposed course uniform syllabus of** ~~English~~ MJC and MIC **for 3rd to 8th Semester of 4 - Year undergraduate Course, (CBSC)** (Major Course and Minor Course)

Reference:- Letter No.-BSU (UGC) -02/2023- 1457/ GS(I) dated 14.09.2023

Sir,

In compliance with your letter no. BSU(UGC)- 02/2023-1457/ GS(I) dated-14.09.2023 followed by above mentioned letter no, we are submitting the proposed course syllabus of ~~English~~ MJC and MIC for 3rd to 8th semester of the 4 - year under graduate course (CBCS) as per UGC regulations.

Yours sincerely

1. Ravi Kr. Sinha 21/9/23
2. Mallik 21.9.23
3. 21/09/23
4. 21.9.23
5. 21.9.23
6. 21/9/23
7. 21.IX.23
8. 21.09.2023
9. 21/09/2023
10. 21.9.23
11. 21.9.23
12. 21.9.23
13. 21.09.23
14. Akumar 21.09.2023

20 - 21 September 2023

Rajbhawan, Patna

English

Semester 3

MJC – 03 (Indian Writing in English)

Type of Course: MJC 03 **Full Marks -100 (30+70)**

Course Objectives:

After completion of the course, the student will be able to:

CO 1: appreciate the historical trajectory of Indian Writing in English.

CO 2: identify therelationship between Indian Writing in English and its social context

CO 3: analyse Indian literary texts written in English in terms of colonialism, postcolonialism, regionalism, and nationalism

MJC – 03 (Indian Writing in English) (5 credits)		
Unit	Topics to be covered	No. of lectures
1	Poetry a. Toru Dutt –The Lotus b. Henry Derozio – The Harp of India, India, My Native Land c. Sarojini Naidu – The Palanquin Bearers d. Kamal Das – An Introduction e. Nissim Ezekiel –The Night of Scorpion f. ImtiyazDharkar – Purdah g. Vikram Seth –A Little Distance	08
2.	Novel and Drama a. R.K. Narayan – The Bachelor of Arts	16

	b. GirishKarnad - Hayavadana	
3.	Prose a. PanditaRamabai – Widowhood b. Rabindranath Tagore – The Spirit of Freedom c. B. R. Ambedkar – The Annihilation of Caste d. Salim Ali – Man and Nature in India - The Ecological Balance e. A.P. J. Abdul Kalam – Work Brings Solace	07
4.	Stories P.C. Roychaudhary, Folk Tales of Bihar, New Delhi: SahityaAkademi, 1968	19
	Total	50

Suggested Readings:

1. Macaulay's Minutes (1835)
2. King, Bruce. *Modern Indian Poetry in English* (Revised Edition), New Delhi: OUP, 2004
3. Iyengar, K.R.S. – *Indian Writing in English*, Bombay: Asia Publishing House, 2000
4. Naik, M.K. – *A History of Indian English Literature*, SahityaAkademi, 1969.
5. Mehrotra, Arvind Krishna. (ed.) *An Illustrated History of India Literature in English*, Delhi: Orient LongmanPvt . Ltd. 2003.
6. *Exploration of ideas: An Anthology of Prose*, Hyderabad: Orient Blackswan, 2009.
7. *ACollection of Indian English Poetry*, Hyderabad: Orient Blackswan, 2010.

English

Semester 3

MJC – 04 (British Poetry and Drama: 14th to 17th Century)

Type of Course: MJC 04 **Full Marks – 100 (30+70)**

Course Objectives:

After completion of the course, the student will be able to :

CO 1: appreciate the characteristic features of poetry of different periods.

CO 2: comprehend Chaucer's contribution to later Middle English poetry and to English poetry in general.

CO 3: appreciate thecontribution of Spenser, Shakespeare and Andrew Marvel to British poetry.

CO 4: understand Marlowe and Shakespeare as great exponents of the art of drama

MJC 4 : BRITISH POETRY AND DRAMA: 14th TO 17th CENTURIES (4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Geoffrey Chaucer, The Wife of Bath's Prologue in*The Wife of Bath's Prologue and Tale*. Ed.James Winny. Cambridge: Cambridge University Press, 2016.	8
2	(a) Edmund Spenser: Selections from *Amoretti*: Sonnet LXVII 'Like as a huntsman...' Sonnet LVII Sweet warrior... Sonnet LXXV One day I wrote her name... (b) Andrew Marvel: Thoughts in a Garden,To His Coy Mistress	8
3	Christopher Marlowe: *Doctor Faustus,* London: Routledge, 1990.	12
4	William Shakespeare: *Macbeth,* UK: CambridgeUniversity Press, 1997.	12
	TOTAL	40

Suggested Readings:

1. Pico Della Mirandola, excerpts from the "Oration on the Dignity of Man", in *The Portable Renaissance Reader*, ed. James Bruce Ross and Mary Martin McLaughlin, New York: Penguin Books, 1953. pp.476–9.
2. John Calvin, 'Predestination and Free Will', in *The Portable Renaissance Reader*, ed. James Bruce Ross and Mary Martin McLaughlin, New York: Penguin Books, 1953. pp. 704–11.
3. Baldassare Castiglione, 'Longing for Beauty' and 'Invocation of Love', in Book 4 *of The Courtier,* 'Love and Beauty', tr. George Bull, Harmondsworth: Penguin, rpt. 1983. pp. 324–8, 330–5.
4. Philip Sidney, *An Apology for Poesie*, ed. Forrest G. Robinson, Indianapolis: Bobbs Merrill, 1970. pp.13–18.
5. A.C. Bradley. *Shakespearean Tragedy*. Macmillan and co Limited, New York : The Macmillan company / Atlantic Publishers and Distributors
6. Richard gill. *Mastering Shakespeare*. Macmillan.

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English

Semester IV

MJC – 05 (AMERICAN LITERATURE)

Type of Course: MJC 05 **Full Marks -100**

AMERICAN LITERATURE

Course Objectives

After completion of the course, the student will be able to:

CO1: understand the characteristic ideals of American Culture

CO2: critically analyse American Literary Texts in the light of several movements in Literature and understand the progression of ideas

CO3: comprehend the changing notions of class, gender and ethnicity.

MJC 5 : AMERICAN LITERATURE (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Tennessee Williams: *The Glass Menagerie*, UK: Penguin UK, 2009.	13
2	Toni Morrison, *Beloved*, New York: Penguin Patanam Inc., 1998.	13
3	(a) Edgar Allan Poe: The Purloined Letter (b) O. Henry: The Last Leaf (c) F. Scott Fitzgerald: The Crack-up (d) William Faulkner: Dry September	12
4	(a) Anne Bradstreet: The Prologue (b) Walt Whitman: Selections from Leaves of Grass: O Captain! My Captain! Passage to India (lines1–68) (c) Alexie Sherman Alexie: Crow Testament Evolution' (d) Robert Frost: The Road Not Taken Stopping by Woods in The Norton Anthology of Poetry, Fourth Edition, Margaret Ferguson, Mary Jo Salter and Jon Stallworthy, New York: W. W. Norton and Company, 1996.	12

	TOTAL	50

Suggested Readings:

1. Hector St. John Crevecoeur, 'What is an American', (Letter III) in *Letters from an American Farmer*, Harmondsworth: Penguin, 1982. pp.66–105.
2. Frederick Douglass, *A Narrative of the Life of Frederick Douglass*, Harmondsworth: Penguin, 1982. chaps. 1–7, pp.47–87.
3. Henry David Thoreau, 'Battle of the Ants' excerpt from 'Brute Neighbours',in *Walden*, Oxford: OUP, 1997. chap. 12.
4. Ralph Waldo Emerson, 'Self Reliance', in *The Selected Writings of Ralph Waldo Emerson*, ed. with a biographical introduction by Brooks Atkinson, New York: The Modern Library,1964.
5. Toni Morrison, 'Romancing the Shadow', in *Playing in the Dark: Whiteness and Literary Imagination*, London: Picador, 1993. pp.29–39.
6. *American Tradition in Literature* – George Perkins and BarbaraPerkins.
7. *American Literature of the 19th Century: An Anthology* – Fisher Samuelsonand RenigerVaid.
8. *American Literature 1890-1965: An Anthology* – Dr. Egbert S. Oliver, New Delhi: Eurasia PublishingHouse.
9. *Concise Anthology of American Literature*, Second Edition, Eds: George McMichael, Fredrick Crews, J.C. Lenenson, Leo Marx, David E.Smith
10. C.A. Beard and M.R. Beard, *The Rise of American Civilization*, 2vols.
11. W. Allen, *The Urgent West: The American Dream andMan*
12. J. Martin, *Harvests of Change: American Literature*,1865-1914

English

Semester IV

MJC – 06 (Language and Linguistics)

Type of Course: MJC 06 **Full Marks -100 (30+70)**

Course Objectives:

After completion of the course, the student will be able to:

CO1: understand the conceptual foundations oflinguistics

CO2: comprehend the history of Englishlanguage

CO3: understand Phonetics and Phonology

MJC 6 : LANGUAGE AND LINGUISTICS (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Language:& Linguistics: a) Definition and Characteristic Features b) Language varieties: Dialect, idiolect, Register, Pidgin and Creole, Standard language c) Synchronic and Diachronic, Langue, Parole, Syntagmatic and Paradigmatic relations	13
2	Phonetics and Phonology: Phonemes, Allophones, Organs of Speech, Classification of Vowels and Consonants of English, Syllables, Stress and Intonation,	13
3	Morphology: Morphs, Morphemes, Allomorphs, Free Morpheme, Bond Morpheme, Affixes, Word Formation	14
4	Oral Drills & Practices: English Vowels and Consonants, Stress, Intonation, Phonemic transcription of isolated words	10
	TOTAL	50

Suggested Readings:

1. Akmajian, A., R. A. Demers and R, M Harnish, *Linguistics: An Introduction to Language and Communication,* 2nd ed., Cambridge Mass: MIT Press, 1984; Indian edition, Prentice Hall, 1991. Chapters 2,3,4,7&8.
2. Fromkin, V., R. Rodman, N. Hyams. *An Introduction to Language*, 7th ed., Thomson Wadsworth, 2003; Indian Edition, Singapore: Thomson Asia,2004. Chapters 3, 5, 6, 7 ,10 and11.
3. Mesthrie, Rajend and Rakesh M Bhatt. 2008. *World Englishes: The Study of New Linguistic Varieties*. Cambridge: Cambridge University Press.
4. J.D. O'Connor: *Better English Pronunciation*, Cambridge University Press,1967.
5. Frank Parker &Kalhryn Riley, *Linguistics for Non-Linguistics*, London: Allyn& Bacon, 1994.
6. R.K. Bansal and J.B. Harrison, *Spoken English: A Manual of Speech and Phonetics*, Hyderabad: Orient Longman,2013.
7. Martin Hewings, *English Pronunciation in Use: Advanced Cambridge*, Cambridge University Press,2007.
8. Andrew Carstairs- McCarthy, *An Introduction to English Morphology: Words and Their Structure*, Edinburgh: Edinburgh University Press,2002.
9. Daniel Jones& A.C. Gimson. English Pronouncing Dictionary. 14th Edition. ELBS, London.

English

Semester IV

MJC – 07 (British Poetry and Drama: 17th Century)

Type of Course: MJC 07 **Full Marks -100 (30+70)**

Course Objectives:

After completion of the course, the student will be able to:

CO1: appreciate the characteristic features of poetry and drama of different periodsand develop critical and analytical skills for literaryappreciation

CO2: appreciate the contributions of Ben Jonson and Thomas MiddletonMilton, Donne to British literature.

CO3: appreciate the social, political and historical contexts of Seventeenth Century literature..

MJC 7 : BRITISH POETRY AND DRAMA: 17th Century (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	John Milton: *Paradise Lost*: Book 1, London: Penguin Books, 1996.	15
2	John Donne – The Sunne Rising, The Good Morrow, A Hymn to God, The Father, Death Be Not Proud	05
3	Ben Jonson, *The Alchemist,* Peacock Books, Atlantic Publishers, 2021.	15
4.	Thomas Middleton – *Women Beware Women*	15
	TOTAL	50

Suggested Readings:

1. *The Holy Bible*, Genesis, chaps. 1–4 The Gospel according to St. Luke, chaps. 1–7 and 22–4.
2. Herbert J.C. Grierson. Metaphysical Lyrics & Poems. Oxford at the Clarendon Press .
3. Brittin, Norman A. (1972), Thomas Middleton (New York: Twayne).
4. D. Heyward Brock & Maria Palaces. The Ben Jonson Encyclopaedia. Rowman& Littlefield Publishers.

English

Semester V

MJC – 08 (British Literature: 18th Century)

Type of Course: MJC 08 **Full Marks -100 (30+70)**

Course Objectives:

After completion of the course, the student will be able to:

CO1: understand the dialectics of reason and emotion in literary work

CO2: understand the concepts of New Classicism and Enlightenment

MJC 8:BRITISH LITERATURE: 18TH CENTURY (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Historical overview of the period – Restoration, Glorious revolution, New Classicism & Enlightenment.	10
2	Jonathan Swift - *Gulliver's Travels*, UK: Oxford University Press, 2008.	16
3	Daniel Defoe - *Robinson Crusoe*, New York: Oxford University Press Inc., 2007. (Introduction by Thomas Keymer).	16
4	Thomas Gray - 'Elegy Written in a Country Churchyard' in Palgrave's *Golden Treasury*, New York: O.U.P., 2007.	08
	TOTAL	50

Suggested Readings:

1. Michael Alexander: *History of English Literature*, Houndmills: Macmillan Press Ltd., 2000.
2. Ifor Evans: *A Short History of English Literature,* London: Penguin Books,1990.
3. David Daiches: *A Critical History of English Literature,* New Delhi: Allied Publishers,1979.
4. Jeremy Collier, *A Short View of the Immorality and Profaneness of the*

English Stage, London: Routledge,1996.

5. Daniel Defoe: 'The Complete English Tradesman'(Letter XXII),'The Great Law of Subordination Considered' (Letter IV), and 'The Complete English Gentleman', in *Literature and Social Order in Eighteenth-Century England*, ed. Stephen Copley, London: Croom Helm,1984.
6. Laurence Sterne: *The Life and Opinions of TristramShandy, Gentleman.* Worldview Publication, 2016.
7. John Locke: Of Ideas in general, and their Original, Paragraphs 1-8, from *An Essay Concerning Human Understanding* (1689), Chap 1 Book II, ed. John Nidditch, Oxford: Clarendon Press, 1975. pp.104-108.
8. Addison and Steele: (i) Addison, Essay No. 10, Monday, March 12, 1711; (ii) Addison, Essay No. 69, on the stock-exchange, Saturday, May 19, 1711, both from The Spectator (1711-12); Eliza Haywood, *Selections from The Female Spectator* (1744-46), ed. Patricia Meyer Spacks,pp.7-23.
9. Palgrave's *Golden Treasury*, New York:O.U.P.,2007.
10. Ian Jack. *Augustan Satire.* OUP

English

Semester V

MJC – 09 (British Romantic Literature)

Type of Course: MJC 09 **Full Marks -100 (30+70)**

Course Objectives:

After completion of the course, the student will have:

CO1: a broad idea of the social historical and literary context that made a shift from new classicism to romanticism.

CO2: knowledge of French Revolution, Impact of Rousseau and other philosophers and new definitions of Poetry.

CO3: the capacity to appreciate the importance of liberty, desire for freedom and need for equality and fraternity.

MJC 9 : BRITISH ROMANTIC LITERATURE (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Historical overview of the Period – Characteristics of Romantic Revival also known as the age of revolution, Origin of French Revolution, Industrialisation, Concepts of liberty equality and fraternity, Innovations in writing from thematic as well as technical points of views, Conceptions of Nature, Literature and Revolution, The Gothic	13
2	William Blake: 'The Lamb', 'The Chimney Sweeper' (from *The Songs of Innocence and The Songs of Experience*) 'The Tyger' (*The Songs of Experience*) Robert Burns: 'Red Rose' William Wordsworth: 'Ode on Intimations of Immortality'	13
3	Samuel Taylor Coleridge: 'Kubla Khan' Percy Bysshe Shelley: ''Ode to the West Wind' John Keats: 'Ode to a Nightingale'	12
4	Mary Shelley: *Frankenstein*, Oxford: Oxford University Press, 2008.	12
	TOTAL	50

Suggested Readings:

1. William Wordsworth, 'Preface to Lyrical Ballads', in *Romantic Prose and Poetry*, ed. Harold Bloom and Lionel Trilling, New York: OUP, 1973. pp.594–611.
2. John Keats, 'Letter to George and Thomas Keats,21 December 1817',and'Letter to Richard Woodhouse, 27 October, 1818', in *Romantic Prose and Poetry*, ed. Harold Bloom and Lionel Trilling, New York: OUP, 1973. pp. 766–68,777–8.
3. Jean-Jacques Rousseau, 'Preface' to *Emile or Education*, tr. Allan Bloom, Harmondsworth: Penguin,199.
   Samuel Taylor Coleridge, *BiographiaLiteraria,* ed. George Watson, London: Everyman, 1993, chap. XIII, pp. 161–66.
4. Michael Alexander: *History of English Literature*, Houndmills: Macmillan Press Ltd., 2000.
5. Ifor Evans: *A Short History of English Literature,* London: Penguin Books,1990.
6. David Daiches: *A Critical History of English Literature,* New Delhi: Allied Publishers,1979.
7. Palgrave's *Golden Treasury*, New York: O.U.P.,2007.

English

Semester VI

MJC – 10 (British Literature: 19th Century)

Type of Course: MJC 10 **Full Marks -100 (30+70)**

Course Objectives:

After completion of the course, the student will be able to :

CO1: understand distinct phases of the Romanticism, Victorian and late Victorian age

CO2: understand and interpret the major social and political developments such as Industrialisation, Technological advancements and Mobilisation of people

CO3: understand the reactions expressed in the writings of the age

MJC 10 : BRITISH LITERATURE: 19TH CENTURY (4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Historical overview of the Period - The importance of Romanticism, Origin of Victorian Poetry, Concept of Faith and Doubt, Mercantilism, Emergence of New Themes and Techniques.	10
2	Jane Austen, *Pride and Prejudice*, London: Oxford University Press, 2019.	10
3	Charles Dickens, *David Copperfield*, Penguin Classics; Revised Edition, 2004.	10
4	Alfred Tennyson: Ulysses Robert Browning: *My Last Duchess* Matthew Arnold: *Dover* *Beach*Thomas Hardy: *To an Unborn* Pauper Child	10
	TOTAL	40

Suggested Readings:

3	ESSAYS: (a) Mary Wollstonecraft: A Vindication of the Rights of Woman, NewYork: Norton, 1988.chap. 1, pp. 11–19; chap. 2, pp.19–38. or (b) RamabaiRanade 'A Testimony of our Inexhaustible Treasures', in PanditaRamabai, *Through Her Own Words: Selected Works*, tr. MeeraKosambi (New Delhi: OUP,2000) pp.295–324.	10
4	DRAMA: (a) Padmanabhan, Manjula. *Harvest*. UK: Aurora Metro Books, 2003.	15
	TOTAL	50

Suggested Readings:

1. Virginia Woolf, *A Room of One's Own*, New York: Harcourt, 1957, chaps. 1 and6.

2. Simone de Beauvoir, 'Introduction', in *The Second Sex*, tr. Constance Borde and ShielaMalovany-Chevallier, London: Vintage, 2010. pp.3–18.

3. KumkumSangari and SudeshVaid, eds., 'Introduction', in *Recasting Women: Essays in Colonial History*, New Delhi: Kali for Women, 1989. pp.1–25.

4. Chandra TalapadeMohanty, 'Under Western Eyes: Feminist Scholarship and Colonial Discourses', in *Contemporary Postcolonial Theory: A Reader*, ed. PadminiMongia, New York: Arnold, 1996. pp.172–97.

5. Gayatri C. Spivak. *Can Subaltern Speak*?, Columbia University Press

1. Karl Marx and Friedrich Engels, 'Mode of Production: The Basis of Social Life', 'The Social Nature of Consciousness', and 'Classes and Ideology', in *A Reader in Marxist Philosophy,* ed. Howard Selsam and Harry Martel, New York: International Publishers,1963. pp. 186–8, 190–1,199–201.
2. Charles Darwin, 'Natural Selection and Sexual Selection', in The Descent of Man in *The Norton Anthology of English Literature*, 8th edn, vol. 2, ed. Stephen Greenblatt, New York: Norton, 2006. pp.1545–9.
3. John Stuart Mill, The Subjection of Women in *Norton Anthology of English Literature,* 8th edn, vol. 2, ed. Stephen Greenblatt, New York: Norton, 2006. chap. 1, pp. 1061–9.
4. Michael Alexander: *History of English Literature*, Houndmills: Macmillan Press Ltd., 2000.
5. Ifor Evans: *A Short History of English Literature,* London: Penguin Books,1990.
6. David Daiches: *A Critical History of English Literature,* New Delhi: Allied Publishers,1979.
7. Palgrave's *Golden Treasury,* New York: O.U.P.,2007.
8. C.M. Bowra. *Romantic Imagination*. OUP/ Books World

English

Semester VI

MJC – 11 (Women's Writings) Marks: 100 (30+70)

Course Objectives:

After completion of the course, the student will be able to:

CO1: getacquainted with the critical precepts at the backdrop of women'swriting.

CO2: critically appreciate poetry, fiction and essays by womenwriters.

CO3: evolve as a gender neutral, gender sensitive and more responsiblecitizens

CC11 : WOMEN'S WRITING (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	POETRY (a) Emily Dickinson- I cannot live with you in*The Poems of Emily Dickinson, Thomas H. Johnson*, ed., Cambridge, Mass.: The Belknap Press of Harvard University Press,1951. (b) Sylvia Plath – Daddy, Harper & Row., Copyright by the Estate of Sylvia Plath, 1981. (c) Maya Angelou – Still I Rise, Gillespie, Marcia Ann, Rosa Johnson Butler, and Richard A. Long, *Maya Angelou: A Glorious Celebration*. New York: Random House,2008. (d) Eunice de Souza – Advice toWomenin *Ways of Belonging: Selected New Poems.* Polygon, 1994. (e) A Jayaprabha – Stares (Chupulu in Telugu, Translated in English by BVL Narayan Row. Pp 596-59 in *Women Writing in India*, Tharu andLalita)	10
2	FICTION a) Walker, Alice, *TheColor Purple*, New York: Harcourt,1992. b) Mansfield, K, 'Bliss' in*Bliss and Other Stories*, Harmondsworth: Penguin, 1962.	15

English

Semester VI

MJC – 12 (British Literature: The Early 20th Century)

Marks: 100 (30+70)

Course Objectives:

After completion of the course, the student will be able to:

CO1: thoroughly analyse all the different genres emerging in British Literature of the period
CO2: grasp the different shades of European Culture.
CO3: interpret specific texts as prescribed in course structure against the backdrop of socio-political currents and counter-currents of the age
CO4: understand the genres, conventions and experimentations associated with the Early 20th century British Literature

MJC 12 : BRITISH LITERATURE: EARLY 20TH CENTURY (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Joseph Conrad, *Heart of Darkness,* India: Fingerprint! Publishing, 2018.	13
2	D.H. Lawrence: (a) Stories: The Fox, The White Stocking (b)Letters: 'To Collins 17th Jan.1913, To Edward Marsh 28 Oct.1913 *D. H. Lawrence's Stories, Essays and Poems*, London: Everyman's Library,1939.	13
3	G.B. Shaw: *Candida,* Penguin Classics.	12
4	(a) W.B. Yeats: The Second Coming, Sailing to Byzantiumin *The Collected Poems of W.B. Yeats*, Revised Edition, Wordsworth Editions Ltd, 2000. (b) T.S. Eliot: The Love Song of J. Alfred Prufrock, Gerontion, in *Collected Poems 1909-1962*, Main Edition, India: Faber and Faber,2002.	12
	TOTAL	50

Suggested Readings:

1. Sigmund Freud, 'Theory of Dreams', 'Oedipus Complex', and 'The Structure of the Unconscious', in *The Modern Tradition*, ed. Richard Ellman et. al., Oxford: OUP, 1965, pp. 571, 578–80, 559–63.
2. T.S. Eliot, 'Tradition and the Individual Talent', in *Norton Anthology of English Literature*, 8th edn, vol. 2, ed. Stephen Greenblatt, New York: Norton, 2006. pp. 2319–25.
3. Raymond Williams, 'Introduction', in *The English Novel from Dickens to Lawrence*, London: Hogarth Press, 1984. pp.9–27.
4. *Palgrave's Golden Treasury,* New York: O.U.P.,2007.

English

Semester VII

MJC – 13 (Modern European Drama) Marks: 100 (30+70)

Course Objectives

After completion of the course, the student will be able to:

CO1: get acquainted with the critical perceptions related to Modern European Drama

CO2: critically appreciate representative Modern European plays

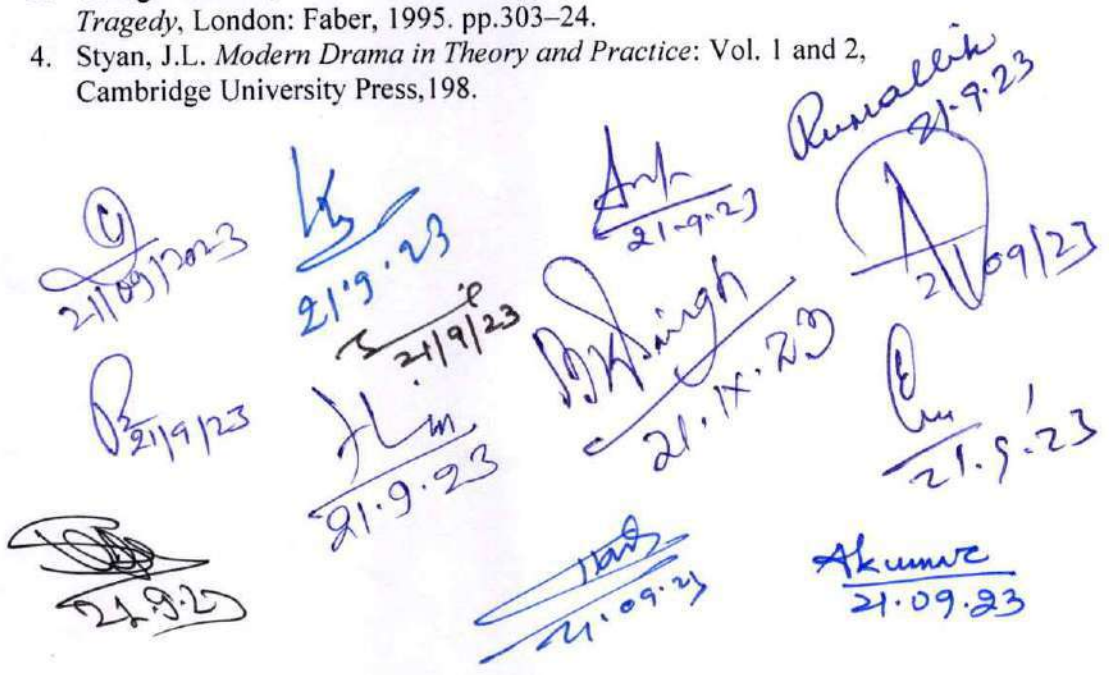
MJC13 : MODERN EUROPEAN DRAMA (5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Ibsen, Henrik, Ghosts, *Four Major Plays. Oxford World's Classic*. Oxford University Press, 1981.	13
2	Bertolt Brecht, *The Good Woman of Setzuan*, Bentley, Eric, trans. & ed. London: Penguin, 2007.	13
3	Genet Jean, *The Balcony*, Atlantic, 1994.	12
4	Pinter, Harold. *The Dumb Waiter*. Published by Samuel French, UK .	12
	TOTAL	50

Suggested Readings:

1. Constantin Stanislavski, *An Actor Prepares*, chap. 8, 'Faith and the Sense of Truth', tr. Elizabeth Reynolds Hapgood, Harmondsworth: Penguin, 1967. sections 1, 2, 7, 8, 9, pp. 121–5,137–46.
2. Bertolt Brecht, 'The Street Scene', 'Theatre for Pleasure or Theatre for Instruction', and 'Dramatic Theatre vs Epic

Theatre', in *Brecht on Theatre: The Development of an Aesthetic*, ed. and tr. John Willet, London: Methuen, 1992. pp. 68–76, 121–8.

3. George Steiner, 'On Modern Tragedy', in *The Death of Tragedy*, London: Faber, 1995. pp.303–24.
4. Styan, J.L. *Modern Drama in Theory and Practice*: Vol. 1 and 2, Cambridge University Press,198.



English

Semester VII

MJC – 14 (Research Methodology)

Credit: 5 **Marks 100**

English

Semester VII

MJC – 15 (Postcolonial Literature) 100 (30+70)

Course Outcomes:

After completion of the course, the student will be able to:

CO1: understand the depth and diversity of Postcolonial literature

CO2: understand the history and culture of the colonial period

CO3: evaluate the thoughts, beliefs, customs, struggles, and visions of Postcolonial writers.

CO4: understand the importance of gender, class, and caste issues in postcolonial literatures.

MJC 14 : POSTCOLONIAL LITERATURE (6 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to Postcolonial Literature (a) The Beginning and The End of Colonial Era (b) Postcolonial Theory & Salient Features	13
2	Poetry (a) Pablo Neruda- Tonight I can Write (b) Derek Walcott- A Far Cry fromAfrica (c) A. K Ramanujan- The Striders (d)Gabriel Okara- Once upon a Time (e) David Malouf- Revolving Days (f) Mamang Dai- Small Towns and the River	14
3	Drama	18

	(a) Sircar, Badal, Indian History Made Easy in *Two Plays: Indian History Made Easy, Life of Bagala*, Oxford University Press, 2009.	
4	Novel (a) Chinua Achebe, *Things Fall Apart,* UK: PenguinUK,2001. or (b) Raja Rao, *Kanthapura,* India: Penguin,2014.	15
	TOTAL	60

Suggested Readings:

1. Bhabha, Homi. Ed. *Nation and Narration* London: Routledge,1990.
2. Said, Edward. *Orientalism*,1979.
3. Sangari,Kumkum.*PoliticsofthePossible:EssaysonGender,History,Narrativesand Colonial English.* Anthem Press,2002.
4. Nair, P.K. Ed. *Postcolonial Literature: An Introduction.* New Delhi: Pearson,2012.
5. Ashcroft et. al. *The Empire Writes Back: Theory and Practice in Postcolonial Literatures.* London: Routledge,1989.
6. Ahmad, Aijaz. *In Theory: Nations, Classes, Literature*, Delhi: OUP,1991.
7. Thiongo, Ngugiwa. *Decolonising the Mind: The Politics of Language in African Literature*, Delhi: Worldview Publications:(First Indian Edition)2007.
8. Toye, Willam (ed.). *The Oxford Companion to Canadian Literature*, Toronto: OUP,1983.
9. Walsh,William.*ReadingsinCommonwealthLiterature*.NewDelhi:OxfordUniversity Press.

English

Semester VIII

MJC – 16 (English Literary Criticism) Marks: 100 (30+70)

Course Objectives:

After completion of the course, the student will be able to:

CO1: comprehend the contributions of different critics to English Literary criticism

CO2: understand Romantic poetics and the paradigm shift it affected in literaryCriticism

CO3: be familiar with the new trends in literary criticism .

MJC 16 : LITERARY CRITICISM (4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	(a) William Wordsworth: Preface to the *Lyrical Ballads*(1802) (b) S. T. Coleridge: *BiographiaLiteraria*(ChaptersXIII & XIV), India: CreateSpace Independent Pub,2014.	10
2	(a) Arnold: 'The Study ofPoetry' (b) Eliot: 'Tradition and the Individual Talent' and "Functions of Criticism" fromD.J. Enright and Ernst De Chickera, *English Critical Texts*, New Delhi: Oxford University Press, 1962.	10
3	(a) I. A. Richards: *Principles of Literary Criticism* (Ch – 1, The Chaos of Critical Theories), London & New York: Routledge&Kagan Paul,1926. (b) I.A. Richards: *Practical Criticism,* London: Kagan Paul,1930	10
4	(a)Major Modern Literary Trends: • Formalism • Modernism • Postmodernism • Structuralism	10

	• Post Structuralism • Deconstructionism • Feminism • Marxism • Postcolonialism	
	TOTAL	40

Suggested Readings:

1. C.S.Lewis:Introduction in*AnExperimentinCriticism,*London:CambridgeUniversity Press 1992.
2. M.H. Abrams: *The Mirror and the Lamp*, Oxford: Oxford UniversityPress,1971.
3. Rene Wellek, Stephen G. Nicholas: *Concepts of Criticism*, Connecticut: Yale University1963.
4. Taylor and Francis Eds. *An Introduction to Literature, Criticism and Theory*, New York: Routledge,1996.
5. Wimsatt and Brookes, *Literary Criticism: A Short History*, New York: Knof,1957,
6. D.J. Enright and Ernst De Chickera, *English Critical Texts*, New Delhi: Oxford University Press, 1962.
7. Blaimrs, Harry. *A History of Literary Criticism* (Middle Ages to Renaissance, pp. 25-69), Houndmills: Macmillan Education,1991.
8. M.H. Abrams. A Glossary of English Literary Terms. Cengage India Pvt. Ltd. (2015)
9. Peter Barry. Beginning Theory.(3rd Edn) , viva Books (2010)

Marking pattern for the all papers

1. Theory - 70

2. CIA - 30

1. Theory: The question paper shall consist of three parts (70 Marks):-

***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks --- 10 X 2 = 20 marks

***Part B**:- Short answer type – **Four** questions (a couple of extracts from the prescribed texts for explanation may also be given) to be answered out of six questions - each carrying five marks ---- 4 X 5 = 20 Marks

***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks ------- 03X10 = 30 Marks

Components of CIA

1. One mid-semester written test (1x15) = 15 marks
2. Seminar/ quiz/ Presentation/ Assignment = 10 marks
3. Attendance and conduct = 05 marks
4. Total = 30 marks

Members of the Syllabus Committee for drafting 4 year programme in Englishunder Choice Based Credit System (CBCS)

1. Prof. K. K. Singh, V. K. S. U., Ara (9431839619)

2. Prof. Arjun Kumar, P. U., Patna (9470810900)

3. Prof. Kumar Moti, J. P. U., Chapra (8709702758)

4. Prof. Gajendra Kumar, J. P. U., Chapra (9973027198)

5. Prof. Amarnath Prasad, J. P. U., Chapra (9471037004)

6. Dr Md. EjazAlam, M. M. H. A. P. U, Patna (9199808404)

7. Dr TauseefMohsin, M. G. R. U. (6200399765)

8. Prof. ShambhuLalVarma, PRNU., (9470262696)

9. TanimaKumari, L. N. M. U., Darbhanga (7903221609)

10. Prof. Rajiv Kumar Mallick, B. N. M. U. (~~9431685808~~ 9430612396)

11. Dr Subodh Kumar Jha, M. U., Bodh Gaya (8210738308)

12. Prof. Ravi Kumar Sinha, B. R. A. B. U.,Muz. (9608202552)

13. Prof. Narendra Kumar, PPU, Patna (8987261909)

14. Prof. Baban Kumar Singh, PPU, Patna (9135566266)

English (Sem-III)

MIC- 03

(Indian Writing in English)

Credits-03 **Full Marks-100**

Course Objectives:

1. To make students aware of the quality of Indian writings in English.
2. To gain knowledge of the artistic and literary traditions of Indian writing.

Unit.	Topics to be covered
1.	**Toru Dutt – Our Casuarina Tree**
2.	**Derozio – India, My Native Land**
3.	**Sri Aurobindo – The Tiger and the Deer**
4.	**A. K. Ramanujan – A River**
5.	**Mahesh Dattani - *Tara***
6.	**R. K. Narayan – *Swami and Friends***

No. of Classes- 30

Suggested Readings

1. King, Bruce. Modern Indian Poetry in English (Revised Edition), New Delhi: OUP, 2004.
2. Iyengar, K. R. S.- *Indian Writing in English*, Bombay: Asia Publishing House,2000.
3. Naik, M. K. - *A History of Indian English Literature*, Sahitya Akademi,1989.
4. Mehrotra, Arvind Krishna. (ed.) *An Illustrated History of Indian Literature in English*, Delhi: Orient Longman Pvt. Ltd. 2003.

Marking pattern for the paper

1. Theory - 70

2. CIA - 30

The question pattern shall consist of three parts:-

***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks 10 X 2 = 20 marks

---

***Part B**:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks

***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

English (Sem-IV)

MIC- 04

Credits-03 **Full Marks-100**

(BRITISH POETRY AND DRAMA: 14th TO 17th CENTURIES)

Course Objectives:

1. To comprehend Chaucer's contribution to later Middle English Poetry
2. To understand and appreciate Marlowe, Shakespeare and Herbert as great literary artists

1. **Chaucer – *Prologue to Canterbury Tales***
2. **Shakespeare's Sonnets – NO. 01, 15, 128, 135**
3. **George Herbert – The Gifts of God**
4. **Marlowe – *Edward II***

Suggested Reading:

1. History of English Literature by Ifor Evans
2. History of English Literature by Edward Albert

No. of Classes- 30
Marking pattern for the paper
1. Theory - 70
2. CIA - 30

The question pattern shall consist of three parts:-
***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks
10 X 2 = 20 marks

***Part B**:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks
***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

English (Sem-V)

MIC- 05

Credits-03 **Full Marks-100**

(American Literature)

Course Objectives:

1. To comprehend various aspects of American literature
2. To understand various trends and issues visible in American writers

1. Ernest Hemingway – *The Old Man and the Sea*

2. Walt Whitman – O Captain! My Captain!

3. Emily Dickenson – Because I Could Not Stop for Death

4. Robert Frost – Stopping by Woods on a Snowy Evening

5. W. C. Williams – This is Just to Say

6. Langston Hughes – Theme for English B

7. Wendy Rose – Women Like Me

No. of classes - 30

Suggested Readings:

1. The Penguin Book of American Verse by Geoffery Moore

Marking pattern for the paper
1. Theory - 70
2. CIA - 30

The question pattern shall consist of three parts:-
*Part A:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks
10 X 2 = 20 marks
---
*Part B:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks
*Part C:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

English (Sem-V)

MIC- 06

Credits-03 **Full Marks-100**

(Language and Linguistics)

Course Objectives:

1. To comprehend the characteristics of language
2. To study different branches of linguistics
3. To understand different modes of pronunciation

1. Definitions and characteristics of language and linguistics, Basic concepts of linguistics: phonetics and phonology, phonemes, morphology, morphemes, allomorphs, phrase, clause, syntax. Semantics, pragmatics
2. Basic concepts of socio-linguistics: Pidgin, Creole, Dialects, Idiolect, Register, Standard language, Psycho-linguistics: structuralism, methods of teaching (direct and indirect)
3. Phonetic symbols and phonemic transcription of isolated words

Suggested Readings:

1. The Study of Language by George Yule CUP
2. Modern Applied Linguistics by M. Krishnaswamy, S. K. Verma, M. Rangrajan, Trinity, India
3. English Phonetics for Indian Students by T. Balasubramanian, Trinity, India
4. English Pronouncing Dictionary by Danial Jones and A. C. Gimson(14th edition) ELBS, London

Marking pattern for the paper
1. Theory - 70
2. CIA - 30

The question paper shall consist of three parts:-
***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks
10 X 2 = 20 marks

***Part B**:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks
***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

English (Sem-VI)

MIC- 07

Credits-03 **Full Marks-100**

(British Poetry and Drama)

Course Objectives:

1. To comprehend the characteristics of the seventeenth century British literature
2. To appreciate the contributions of Milton and Wycherley

1. John Milton – Lycidas
2. W. Wycherley – *The Country Wife*

Suggested Readings:

1. A Critical History of English Literature by David Daiches
2. English Literature by R. J. Rees

No. of Classes- 30

Marking pattern for the paper

1. Theory - 70
2. CIA - 30

The question paper shall consist of three parts:-

*__Part A__:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks ---
10 X 2 = 20 marks

*__Part B__:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks

*__Part C__:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

English (Sem-VI)

MIC- 08

Credits-03 **Full Marks-100**

(18TH Century British Literature)

Course Objectives:

1. To comprehend the characteristics of the eighteenth century British literature
2. To appreciate the contributions of John Dryden and William Congreve

1. John Dryden – *Mac Flecknoe*
2. William Congreve – *The Way of the World*

Suggested Readings:

1. *A Critical History of English Literature* by David Daiches
2. *English Literature* by R. J. Rees
3. *A Background to the Study of English* Literature by B. Prasad

No. of Classes- 30

Marking pattern for the paper
1. Theory - 70
2. CIA - 30

The question paper shall consist of three parts:-
***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks
---
10 X 2 = 20 marks
***Part B**:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks
***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

English (Sem-VII)

MIC- 09

Credits-04 **Full Marks-100**

(British Romantic Literature)

Course Objectives:
1. To comprehend the characteristics of British Romantic literature
2. To appreciate the contributions of the Romantic poets

1. William Blake – The Divine Image, The Garden of Love
2. William Wordsworth – Lines Written in the Early Spring
3. S. T. Coleridge – Love
4. John Keats – Ode to Autumn

Suggested Readings:

1. Palgrave's Golden Treasury, New York, O. U. P., 2007
2. A Critical History of English Literature by David Daiches
3. English Literature by R. J. Rees

No. of Classes- 30

Marking pattern for the paper
1. Theory - 70

2. CIA - 30

The question paper shall consist of three parts:-
***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks
---
10 X 2 = 20 marks
***Part B**:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks
***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

English (Sem-VIII)

MIC- 10

Credits-04 **Full Marks-100**

(19TH Century British Literature)

Course Objectives:
1. To comprehend the characteristics of the Victorian literature
2. To appreciate the contribution of Victorian poets, novelists and dramatists

1. Matthew Arnold – Shakespeare
2. Tennyson – Break, Break, Break
3. Robert Browning - Prospice
3. Charles Dickens – *Oliver Twist*

Suggested Readings:

1. A Critical History of English Literature by David Daiches
2. English Literature by R. J. Rees

No. of Classes- 30

Marking pattern for the paper
1. Theory - 70
2. CIA - 30

The question paper shall consist of three parts:-
***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks
---
10 X 2 = 20 marks
***Part B**:- Short answer type – **Four** questions to be answered out of six questions - each carrying five marks ----4 X 5 = 20 Marks
***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks -------03X10 = 30 Marks

Members:

1. Prof. K. K. Singh, V. K. S. U., Ara (9431839619) — 21.09.2023
2. Prof. Arjun Kumar, P. U., Patna (9470810900) — 21.09.2023
3. Prof. Kumar Moti, J. P. U., Chapra (8709702758) — 21.9.23
4. Prof. Gajendra Kumar, J. P. U., Chapra (9973027198) — 21/09/23
5. Prof. Amarnath Prasad, J. P. U., Chapra (9471037004) — 21.09.23
6. Dr MD. Ejaz Alam, M. M. H. A. P. U, Patna (9199808404) — 21/9/23
7. Dr Tauseef Mohsin, M. G. R. U., (6200399765) — 21.9.23
8. Prof. Shambhu Lal Varma, P. R. N. U., (9470262696) — 21/09/23
9. Tanima Kumari, L. N. M. U., Darbhanga, (7903221609) — 21/9/23
10. Prof. Rajiv Kumar Mllick, B. N. M. U. (9431685808) — 21.9.23
11. Dr Subodh Kumar Jha, M. U., Bodh Gaya, (8210738308) — 21/9/23
12. Prof. Ravi Kumar Sinha, B. R. A. B. U., (968202552) — 21/9/23
13. Prof. Narendra Kumar, PPU, Patna, (8987261909) — 21/09/23
14. Prof. Baban Kumar Singh, PPU, Patna, (9135566266) — 21.9.23

21.9.23

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:-**Regarding submission of proposed course uniform syllabus of** ..... English ..... **for 3rd to 8th Semester of 4 - Year undergraduate Course, (CBSC)** MDC (Multi Disciplinary Course)

Reference:- Letter No.-BSU (UGC) -02/2023- 1457/ GS(I) dated 14.09.2023

Sir,

In compliance with your letter no. BSU(UGC)- 02/2023-1457/ GS(I) dated-14.09.2023 followed by above mentioned letter no, we are submitting the proposed course syllabus of ..... English ..... for 3rd to 8th semester of the 4 - year under graduate course (CBCS) as per UGC regulations.
MDC

Yours sincerely

1. 21.9.23
2. 21.9.23
3. 21/9/23
4. 21/09/2023
5. 21.9.23
6. 21/9/23
7. 21.IX.23
8. 21.09.2023
9. 21/09/23
10. 21.9.23
11. 21.9.23
12. 21.9.23
13. 21.09.23
14. 21.09.2023

20 - 21 September 2023

Rajbhawan, Patna

ENGLISH

Multidisciplinary Courses (MDC)

MDC 1 :ACADEMIC WRITING AND COMPOSITION

Type of course : MDC 01 **Marks 100**

Course Objectives

After completion of the course, the student will be able to:

CO1: distil and craft ideas

CO2: conduct academicresearch

CO3: quote, paraphrase and summarize information from otherworks

CO4: understand the formal patterns and structure necessary to produce specific academic genres

MDC 1 : ACADEMIC WRITING AND COMPOSITION (3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to the Conventions of Academic Writing: Strategies for Writing, Institutional Contexts	09
2	Critical Thinking: Syntheses, Analyses, and Evaluates	06
3	Writing in one's own words: Summarizing and Paraphrasing: Paragraphing, Transitions, Summary Writing, Structuring an Argument, Writing as a Practice.	09

4	Citing Resources; Editing, Book and Media Review: Citational Practices, Conference talks, Footnotes and Endnotes, Rhetorical **Prescribed Texts** Eric Hayot, *The Elements of Academic Style*, New York: Columbia University Press, 2014. MLA Handbook, 9th edition, Modern Language Association of America, 30 May 2021.	06
	TOTAL	30

Suggested Readings:

1. Hamp-Lyons Liz and HeasleyBen. *Study writing: A Course in Writing Skills for Academic Purposes*, Cambridge: CUP,2006.
2. Gupta, Renu. *A Course in Academic Writing*, New Delhi: Orient Black Swan,2010.
3. Leki, Ilona.*Academic Writing: Exploring Processes and Strategies*, New York: CUP, 2nd edn,1998.
4. Graff,Gerald and Birkenstein, Cathy.*They Say / I Say: The Moves That Matter in Academic Writing,* New York: Norton,2009.

MDC 02: CREATIVE WRITING

Type of course : MDC 03 **Marks 100**

Course Outcomes

After completion of the course, the student will be able to:

CO1: apply the general principles ofwriting

CO2: comprehend the art and craft ofwriting

CO3: understand different modes of creativewriting

CO4: use language for creativewritings

MDC 02: CREATIVE WRITING (3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	The Art and Craft of Writing Tropes and Figures of Speech (Examples of figures of speech based on similarity/obliqueness/difference/extension/utterance and word building should be discussed and practiced in class)	09
2	Modes of Creative Writing -- Poetry and Fiction a) Writing toCommunicate b) Writing Poetry -- Definitions of Poetry/Difference between Poetry and Prose c) Writing Verse forchildren d) Writing Fiction -- Differences between Fiction and Non-Fiction e) Creating Character, Plot, Setting	09
3	Modes of Creative Writing-Drama and Screenplay a) What is a Drama --Concept b) Plot and Character inDrama	06
4	Editing and Preparing for Publication (pages 208-216)	06

	a) Editing and proof-reading yourmanuscript b) Preparing a manuscript forPublication	
	TOTAL	30

Reading List :

1. AnjanaNeiraDev and Others, *Creative Writing: A Beginner's Manual,* Delhi: Pearson, 2009.

MDC 03: BUSINESS COMMUNICATION

Course Objectives

After completion of the course, the student will be able to:

CO1: show effective communicationskills

CO2: write efficiently in professionalcontexts

CO3: develop better interpersonalrelationships

MDC 03 : BUSINESS COMMUNICATION (3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to the essentials of Business Communication: Theory and practice (a) Definition ofCommunication (b) Methods ofCommunication (c) Types ofCommunication (d) Barriers toCommunication	09
2	(a) Kinds of BusinessLetters (b) Correspondences in Various ProfessionalContexts	06
3	(a) Report Writing & CV (b) Agenda, Minutes of Meeting, Memorandum, Office Order, Circular,Notes.	06
4	(a) E-correspondence: Fax – Email – Video Conferencing – Internet – Websites and their use in Business Correspondence. (b) Spoken English for Business Communication	09
	TOTAL	30

Prescribed Texts

1. Scot, O.; Contemporary Business Communication. New Delhi: Biztantra.
2. R. C. Bhatia, *Business Communication*, New Delhi: Ane Books PvtLtd,

Reading List :

1. Ludlow, R. & Panton, F. *The Essence of Effective Communications*, New Delhi: Prentice Hall Of India Pvt.Ltd.
2. Lesikar, R.V. &Flatley, M.E.; *Basic Business Communication Skills for Empowering the Internet Generation*, New Delhi: Tata McGraw Hill Publishing CompanyLtd.

Marking pattern for the all papers

1. Theory - 70

2. CIA - 30

1. Theory: The question paper shall consist of three parts (70 Marks):-

***Part A**:- Compulsory – consisting of **ten** objective/multiple choice type - each carrying two marks --- 10 X 2 = 20 marks

***Part B**:- Short answer type – **Four** questionsto be answered out of six questions - each carrying five marks ---- 4 X 5 = 20 Marks

***Part C**:- Long answer type - **Three** questions to be answered out of five questions - each carrying ten marks ------- 03X10 = 30 Marks

Components of CIA

1. One mid-semester written test (1x15) = 15 marks
2. Seminar/ quiz/ Presentation/ Assignment = 10 marks
3. Attendance and conduct = 05 marks
4. Total = 30 marks

Members of the Syllabus Committee for drafting 4 year programme in Englishunder Choice Based Credit System (CBCS)

1. Prof. K. K. Singh, V. K. S. U., Ara (9431839619) – 21.09.23

2. Prof. Arjun Kumar, P. U., Patna (9470810900) – Akumar 21.09.2023

3. Prof. Kumar Moti, J. P. U., Chapra (8709702758) – 21.9.23

4. Prof. Gajendra Kumar, J. P. U., Chapra (9973027198) – 21/09/2023

5. Prof. Amarnath Prasad, J. P. U., Chapra (9471037004)

6. Dr Md. EjazAlam, M. M. H. A. P. U, Patna (9199808404)

7. Dr TauseefMohsin, M. G. R. U. (6200399765)

8. Prof. ShambhuLalVarma, PRNU., (9470262696)

9. TanimaKumari, L. N. M. U., Darbhanga (7903221609)

10. Prof. Rajiv Kumar Mallick, B. N. M. U. (~~9431685808~~ 9430612396)

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13. Prof. Narendra Kumar, PPU, Patna (8987261909)

14. Prof. Baban Kumar Singh, PPU, Patna (9135566266)

Syllabus for four year Undergraduate Course In Universities of Bihar

Bachelor of Science
Zoology



Submitted by
Subject Expert Committee

21·09·2023

To,
The Principal Secretary to Governor
Raj Bhawan, Patna.

Subject: Submission of Uniform Syllabus for 4 year Undergraduate Courses of Bachelor of Science under CBCS in the Subject- Zoology.

Sir,

With reference to letter No. BSU (UGC) -02/2023-1457/GS (I) dated 14.09.2023, a meeting of the panel of experts in Zoology was held on 20-09-2023 & 21-09-2023 to finalize the syllabus of Zoology. We are submitting the syllabus of the same.

Your Sincerely,

Sl. No.	Name and Designation	Signature
1	Prof. (Dr) Rakesh Prasad (Retd.) Department of Zoology, Jai Prakash university, Chapra.	
2	Prof. (Dr) Dilip Kumar Keshri Department of Zoology, Magadh University, Bodhgaya	
3	Prof. (Dr) Ajit Kumar Sinha Department of Zoology, Veer Kunwar Singh University, Ara	
4	Prof. (Dr) Preety Sinha Department of Zoology, Patliputra University, Patna	
5	Prof. (Dr) Parimal Kumar Khan Department of Zoology, Patna University, Patna.	
6	Prof. (Dr) Narendra Srivastava Department of Zoology, B N Mandal University, Madhepura	
7	Prof. (Dr) Rana Vikram Singh Department of Zoology, Jai Prakash university, Chapra	
8	Dr. Gyanendra Bahadur Chand Department of Zoology, Patna University, Patna	
9	Sri Ravindra Nath Pathak Department of Zoology, D A V College, J P university, Chapra.	
10	Dr. Dhiraj Kumar Department of Zoology, R S College, BRA Bihar University, Muzaffarpur	
11	Dr. Shushovan Banik Department of Zoology, L N M U, Darbhanga	
12	Dr. Mayank Madhukar Department of Zoology, R D & D J College, Munger University, Munger	
13	Dr. Sujata Kumari Department of Zoology, M M College, Patna University, Patna.	

Syllabus for 4 Year Undergraduate Course in Universities of Bihar.
Bachelor of Science, Zoology.

Programme Outcomes: At the completion of the programme, students will attain:

PO1. Disciplinary knowledge: Acquire comprehensive knowledge of major concepts, theoretical principles and experimental findings in Zoology, and some of the applied areas of study such as wildlife conservation and management; environmental science; various techniques, instruments, used for analysis of animal forms and functions.

PO2. Effective communication and Critical thinking: Convey the intricate zoological information effectively and efficiently, analyze and solve the problems related to animal sciences without reckoning on assumptions and guesses.

PO3. Research & Leadership quality: Recognize and mobilize relevant resources essential for a research project, and manage the project in a responsible way by following ethical scientific conduct and bio-safety protocols.

PO4. Digitally literate and Ethical awareness: Use computers for computation and data analysis with appropriate software for biostatistics, and employ search tools to locate and retrieve relevant information, recognize and avoid unethical behaviour such as fabrication, or misrepresentation of data or commit plagiarism.

PO5. Environment and Sustainability: Understand the environmental and sustainability issues, acquire self-paced and self-directed learning aimed at personal and social development.

Programme Specific Outcomes: At the completion of the programme, students will attain:

PSO1. Students should be able to identify, classify and differentiate diverse chordates and non chordates based on their morphological, anatomical and systemic organization.

PSO2. They will also be able to describe economic, ecological and medical significance of various animals in human life. This will create a curiosity and awareness among them to explore the animal diversity and explore related career options. The procedural knowledge about identifying and classifying animals will provide students professional advantages in teaching, research and taxonomist jobs in various government organizations.

PSO3. Acquired practical skills in molecular biology; biotechnology; microscopy; enzymology and analytical biochemistry and genetics will provide an extra edge to our students, who wish to undertake higher studies.

PSO4. In-depth knowledge and understanding about comparative anatomy and developmental biology of various biological systems; and learning about the organisation, functions, strength

and weaknesses of various systems will let students critically analyse the way evolution has shaped these traits in the human body.

PSO5. Acquired skills in diagnostic testings, haematology, histopathology, staining procedures etc. used in clinical and research laboratories will provide students opportunity to work in diagnostic or research laboratory. Deep understanding of different physiological systems and methods available to measure vital physiological parameters and to comprehend the mechanism behind occurrence of different lifethreatening disease *via* laboratory examination, assessment of basic physiological functions by interpreting physiological charts will help to find their career options.

(A) Major Core Courses

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	MJC-1 (T)	Diversity of Non-Chordates (T)	4	100
		MJC-1 (P)	Diversity of Non-Chordates (P)	2	100
2.	II	MJC-2 (T)	Diversity of Chordates (T)	4	100
		MJC-2 (P)	Diversity of Chordates (P)	2	100
3.	III	MJC-3 (T)	Comparative Anatomy (T)	3	100
		MJC-3 (P)	Comparative Anatomy (P)	2	100
		MJC-4 (T)	Physiology (T)	3	100
		MJC-4 (P)	Physiology (P)	1	100
4.	IV	MJC-5 (T)	Cell Biology (T)	3	100
		MJC-5 (P)	Cell Biology (P)	2	100
		MJC-6 (T)	Endocrinology (T)	3	100
		MJC-6 (P)	Endocrinology (P)	2	100
		MJC-7 (T)	Ecology (T)	3	100
		MJC-7 (P)	Ecology (P)	2	100
5.	V	MJC-8 (T)	Biochemistry (T)	3	100
		MJC-8 (P)	Biochemistry (P)	2	100
		MJC-9 (T)	Genetics (T)	3	100
		MJC-9 (P)	Genetics (P)	2	100
6.	VI	MJC-10 (T)	Developmental Biology (T)	3	100
		MJC-10 (P)	Developmental Biology (P)	1	100
		MJC-11 (T)	Evolution (T)	3	100
		MJC-11 (P)	Evolution (P)	2	100
		MJC-12 (T)	Animal Behaviour (T)	3	100
		MJC-12 (P)	Animal Behaviour (P)	2	100

7.	VII	MJC-13 (T)	Molecular Biology (T)	3	100
		MJC-13 (P)	Molecular Biology (P)	2	100
		MJC-14	Research Methodology	5	100
		MJC-15 (T)	Immunology and Microbiology (T)	4	100
		MJC-15 (P)	Immunology and Microbiology (P)	2	100
8.	VIII	MJC-16 (T)	Instrumentation and Biometry	4	100

Sub Total = 80

(B) Minor Courses to be offered by the Department for students of other Departments of Science

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	MIC-1 (T)	Diversity of Non-Chordates(T)	2	100
		MIC-1 (P)	Diversity of Non-Chordates(P)	1	100
2.	II	MIC-2 (T)	Diversity of Chordates (T)	2	100
		MIC-2 (P)	Diversity of Chordates (P)	1	100
3.	III	MIC-3(T)	Physiology(T)	2	100
		MIC-3(P)	Physiology(P)	1	100
4.	IV	MIC-4(T)	Ecology(T)	2	100
		MIC 4(P)	Ecology(P)	1	100
5.	V	MIC-5(T)	Cell Biology (T)	2	100
		MIC-5(P)	Cell Biology (P)	1	100
6.		MIC-6(T)	Genetics (T)	2	100
		MIC-6(P)	Genetics (P)	1	100
7.	VI	MIC-7(T)	Evolution (T)	2	100
		MIC-7(P)	Evolution (P)	1	100
8.		MIC-8(T)	Developmental Biology(T)	2	100
		MIC-8(P)	Developmental Biology (P)	1	100

9.	VII	MIC-9(T)	Animal Behaviour(T)	3	100
		MIC-9(P)	Animal Behaviour(P)	1	100
10.	VIII	MIC-10(T)	Endocrinology (T)	3	100
		MIC-10(P)	Endocrinology (P)	1	100

Sub Total = 32

(C) Multidisciplinary Courses to be offered

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	To be selected from the basket	3	100
2.	II	MDC-2	To be selected from the basket	3	100
3.	III	MDC-3	To be selected from the basket	3	100

Sub Total = 09

(D) Ability Enhancement Courses to be offered

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	AEC-1	MIL	2	100
2.	II	AEC-2	Environmental Science	2	100
3.	III	AEC-3	Disaster Risk Management	2	100
4.	IV	AEC-4	NCC/NSS/NGOs/Social Service/ Scout and Guide/Sports	2	100

Sub Total = 08

(E) Skill Enhancement Courses to be offered

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	SEC-1	To be selected from the basket	3	100
2.	II	SEC-2	To be selected from the basket	3	100
3.	III	SEC-3	To be selected from the basket	3	100

Sub Total = 09

(F) Value Added Courses to be offered

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	VAC-1	To be selected from the basket	3	100
2.	II	VAC-2	To be selected from the basket	3	100

Sub Total = 06

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	V	INT-1	Summer Internship	4	100

Sl. No.	Semester	Type of Course	Name of Course	Credits	Marks
1.	VIII	RP-1	Research/Dissertation	12	100

Grand Total Credits = 160

(G) Basket for Multidisciplinary Courses (MDC)
To be decided by Respective Department

(H) Basket for Skill Enhancement Courses (SEC)
See at the end of structure (this booklet)

(I) Basket for Value Added Courses (VAC)
See at the end of structure (this booklet)

Question Paper Pattern

The question paper shall consist of three parts: -

Part A -Compulsory- Consisting of ten objective/Multiple choice type - each carrying two marks. 10x2= 20 marks

Part B -Short answers type - Four questions are to be answered out of six questions - each carrying five marks. 04x5 = 20 marks

Part C- Long answers type questions. Three questions to be answered out of five questions - each carrying ten marks. 03x10 = 30 marks

Examinations shall not be held on OMR Sheets strictly.

Syllabus for Four-Year B.Sc. Course in Zoology

Semester -I

Major Course 1 (MJC-1)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Diversity of Non-Chordates	6	4	2

Course outcomes: After completion of the course, students should be able to:

CO-1: Learn about the importance of systematics, taxonomy, and structural organization of non-chordates.

CO-2: Understand & appreciate the diversity of non-chordates living in varied habits and habitats.

CO-3: Understand evolutionary history and relationships of different non-chordates through functional and structural affinities.

CO-4: Critically analyze the organization, complexity and characteristic features of non-chordates.

CO-5: Recognize the life functions and the ecological roles of the animals belonging to different phyla.

CO-6: Enhance collaborative learning and communication skills through practical sessions, team-work, group discussions, assignments and projects.

MJC-1: Diversity of Non-Chordates (Theory: 4 Credits) 40hrs		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Introduction to Non-chordates: General characteristics and classification (up to order) of the following Phyla: Protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes, Nemathelminthes, Annelida, Arthropoda, Mollusca and Echinodermata.	8
2	2.1. Protozoa: Structure and Life cycle of *Paramecium, Plasmodium* and *Leshmania donovani.* 2.2. Porifera: Spicules and Canal system in sponges; affinities of the Phylum.	10
3	3.1. Cnidaria: Structure and Life Cycle: *Obelia* and *Aurelia.* 3.2. Ctenophora: General organization of Hormiphora; affinities of the phylum. 3.3 Platyhelminthes and Nemathelminthes: Structure and Life cycle of *Fasciola hepatica, Taenia solium* and *Ascaris lumbricoides.*	10
4	4.1. Annelida: Earthworm and Leech: Structure, locomotion, alimentary canal and reproduction. 4.2. Arthropoda: *Palaemon* and *Peripatus*, Adaptive variations in insect mouth parts. 4.3. Mollusca: Structure and Life cycle: *Unio, Pila.* Torsion and Detorsion in Gastropoda. 4.4. Echinodermata: Structure: Star fish; Larval forms in Echinoderms; Water Vascular System in Echinoderms.	12
	TOTAL	**40**

MJC-1: Diversity of Non-Chordates (Practical: 2 Credits) 20 hrs	
End Semester Examination	
Time – 3 hours	**Full Marks-70**
Permanent slides	15
Museum specimen	15
Larval forms	10
Comments on display charts provided Practical record/Chart/Model	10
Viva-voce	10
Sl. No.	**Name of Practicals/Experiments**

1	Study of whole mount of *Euglena*, Amoeba, *Paramecium*, *Monocystis*; Binary fission and Conjugation in *Paramecium*.
2	Study of *Sycon*; T.S. of *Sycon*, L.S. of *Sycon*; Gemmule, Hyalonema.
3	Permanent stained preparation of spicules of sponges
4	Study of *Obelia, Aurelia, Metridium ,Physalia.*
5	Specimen/slide of any one Ctenophore.
6	Study of adult *Fasciola hepatica, Taenia solium* and *Ascaris* (male & female).
7	Study of Aphrodite, Septal nephridia and Ovary of Earthworm; Jaws of leech; Trochophore larva.
8	Study of T.S. through pharynx, gizzard, and typhlosolar region of earthworm.
9	Study of *Limulus*, *Scolopendra*, Grasshopper, *Phyllium*, Praying mantis, Palaemon, Sacculina, Cancer, *Eupagurus*, *Apis*, *Musca*. Salivary gland of Cockroach, Mouth parts of Mosquito.
10	Study of *Chiton*, *Dentalium*, Octopus, Glochidim larva.
11	Study of *Asterias*, *Echinus*, *Antedon*.
	Practical Records/Charts/Models.
	Viva-voce.

Suggested Books:

- Ruppert and Barnes, R.D. (2006). *Invertebrate Zoology*, VIII Edition. Holt Saunders International Edition.
- Barnes, R.S.K., Calow, P., Olive, P.J.W., Golding, D.W. and Spicer, J.I. (2002). *The Invertebrates:A New Synthesis*, III Edition, Blackwell Science.
- Barrington, E.J.W. (1979). *Invertebrate Structure and Functions*. II Edition, E.L.B.S. and Nelson.
- Verma P S, Jordan E L. (2009). Invertebrate Zoology. S. Chand publishers.
- Brusca R C (2016). Invertebrates. Published by Sinauer Associates, an imprint of Oxford University Press.
- S. S. Lal, Practical Zoology Invertebrate.

Semester -I

Minor Course 1 (MIC-1)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Diversity of Non-Chordates	3	2	1

Course outcomes: After completion of the course, students should be able to:

CO-1: Learn about the importance of systematics, taxonomy, and structural organization of non-chordates.

CO-2: Critically analyse the organization, complexity and characteristic features of non-chordates.

CO-3: Recognize the life functions and the ecological roles of the animals belonging to different phyla.

MIC-1: Diversity of Non-Chordates (Theory: 2 Credits) 20 hrs		
Unit	**Topics to be covered**	**No. of Lectures**
1	I. Introduction to Non-chordates General characteristics and classification (up to order) of the following Phyla: Protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes, Nemathelminths, Annelida, Arthropoda, Mollusca, Echinodermata.	5
2	2. Structure and life history of:- Protozoa - *Paramecium* Porifera - *Sycon*	4
3	3. Structure and life history of:- Cnidaria - *Obelia* Platyhelminthes - *Fasciola* Aschelminthes - *Ascaris*	5
4	4. Study of coelomates:- Annelida - *Pheretima* Arthropoda - *Palaemon* Mollusca - *Pila* Echinodermata - *Asteries* Hemichordata - *Balanoglossus*	6
	TOTAL	**20**

MIC-1: Diversity of Non-Chordates (Practical: 1 Credit) 10 hrs	
End Semester Examination **Time – 3 hours** **Full Marks-70**	
Permanent slides	15
Museum specimen	15
Larval forms	10
Comments on display charts provided	10
Practical record/Chart/Model	10
Viva-voce	10

Sl. No.	Name of Practicals/Experiments
1	Study of whole mount of *Euglena, Paramecium, Leshmania*
2	Study of *Sycon, Spongilla*, T.S. of *Sycon*, L.S. of *Sycon.*
3	Study of *Obelia, Aurelia, Gorgonia*
4	Study of adult *Fasciola hepatica, Taenia soliumand* their life stages
5	Study of *Pheretima, Hirudinaria*
6	Study of T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm.
7	Study of *Limulus, Palaemon, Apis.*
8	Mouth parts of Mosquito and Cockroach.
9	Study of *Pila, Unio.*
10	Study of *Asterias.*

Suggested Books :

- Ruppert and Barnes, R.D. (2006). *Invertebrate Zoology*, VIII Edition. Holt Saunders International Edition.
- Barnes, R.S.K., Calow, P., Olive, P.J.W., Golding, D.W. and Spicer, J. I. (2002). *The Invertebrates: A New Synthesis*, III Edition, Blackwell Science
- Barrington, E.J.W. (1979). *Invertebrate Structure and Functions*. II Edition, E.L.B.S. and Nelson
- Verma P S, Jordan E L. (2009). Invertebrate Zoology. S. Chand publishers
- Brusca R C (2016). Invertebrates. Published by Sinauer Associates, an imprint of Oxford University Press.
- S. S. Lal, Practical Zoology, Invertebrate.

Semester -I

Multidisciplinary Course 1 (MDC-1)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Diversity of Non-Chordates	3	2	1

Course outcomes: After completion of the course, students should be able to:

CO-1: Learn about the importance of systematics, taxonomy, and structural organization of non-chordates.

CO-2: Critically analyse the organization, complexity and characteristic features of non chordates.

CO-3: Recognize the life functions and the ecological roles of the animals belonging to different phyla.

MDC-1: Diversity of Non-Chordata (Theory: 2credits)20 hrs		
Unit	**Topics to be covered**	**No. of Lectures**
1	I. Introduction to Non-chordates General characteristics and classification (up to order) of the following Phyla: Protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes and Nemathelminths, Annelida, Arthropoda, Mollusca, Echinodermata	5
2	2 Structure and life history of:- Protozoa - *Paramecium* Porifera - *Sycon*	4
3	3. Structure and life history of:- Cnidaria - *Obelia* Platyhelminthes - *Fasciola* Aschelminthes - *Ascaris*	5
4	4. Study of coelomates: Annelida - *Pheretima* Arthropoda - *Palaemon* Mollusca - *Pila* Echinodermata - *Asteries* Hemichordata - *Balanoglossus*	6
	TOTAL	**20**

MDC-1: Diversity of Non-Chordates (Practical: 1 Credit) 10 hrs	
End Semester Examination	
Time – 3 hours	**Full Marks-70**
Permanent slides	15
Museum specimen	15
Larval forms	10
Comments on display charts provided	10
Practical record/Chart/Model	10
Viva-voce	10

Sl. No.	Name of Practicals/Experiments
1	Study of whole mount of *Euglena, Paramecium, Leshmania*
2	Study of *Sycon, Spongilla*, T.S. of *Sycon*, L.S. of *Sycon.*
3	Study of *Obelia, Aurelia, Gorgonia*
4	Study of adult *Fasciola hepatica, Taenia solium*and their life stages
5	Study of *Pheretima, Hirudinaria*
6	Study of T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm.
7	Study of *Limulus, Palaemon, Apis.*
8	Mouth parts of Mosquito and Cockroach.
9	Study of *Pila, Unio.*
10	Study of *Asterias.*

Suggested Books:

- Ruppert and Barnes, R.D. (2006). *Invertebrate Zoology*, VIII Edition. Holt Saunders International Edition.
- Barnes, R.S.K., Calow, P., Olive, P.J.W., Golding, D.W. and Spicer, J. I. (2002). *The Invertebrates: A New Synthesis*, III Edition, Blackwell Science
- Barrington, E.J.W. (1979). *Invertebrate Structure and Functions*. II Edition, E.L.B.S. and Nelson
- Verma P. S, Jordan E. L. (2009). Invertebrate Zoology. S. Chand publishers
- Brusca R C (2016). Invertebrates. Published by Sinauer Associates, an imprint of Oxford University Press.
- S. S. Lal, Practical Zoology, Invertebrate.

Semester II

Major Course 2 (MJC-2)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Diversity of Chordates	6	4	2

Course Outcomes: After completion of the course, the students will be able to:

CO-1: Understand different classes of chordates, level of organization and evolutionary relationship between different subphyla and classes, within and outside the phylum.

CO-2: Study about diversity in animals making students understand about their distinguishing features.

CO-3: Appreciate similarities and differences in life functions among various groups of animals in Phylum Chordata.

CO-4: Comprehend the circulatory, nervous and skeletal system of chordates.

CO-5: Know about the habit and habitat of chordates in marine, freshwater and terrestrial ecosystems.

MJC-2: Diversity of Chordates (Theory: 4 Credits) 40 hrs		
Unit	**Topics to be covered**	**No. of Lectures**
1	1.1 Introduction to Chordates: 1.2 General characteristics and classification (upto Order): Cephalochordata, Urochordata, Cyclostomata, Pisces, Amphibia, Reptilia, Aves and Mammalia.	8
2	2.1 Origin and Evolution of Chordata. 2.2 Cephalochordata: *Amphioxus*. 2.3 Urochordata: *Herdmania* (including retrogressive metamorphosis). 2.4 Cyclostomata: *Petromyzon*.	10
3	3.1 Pisces: Migration, Osmoregulation, and Accessory respiration. 3.2 Amphibia: Origin and Evolution; Parental care and Neoteny. 3.3 Reptilia: Poison and Non-poisonous snakes; Poison apparatus; biting and feeding mechanism in snakes.	12
4	4.1 Aves: Origin of birds, Flight adaptations and Migration in birds. 4.2 Mammalia: Characters, distribution and affinities of Prototheria Metatheria and Eutheria.	10
	TOTAL	**40**

MJC-2: Diversity of Chordates (Practical: 2 Credits) 20 hrs	
End Semester Examination	
Time – 3 hours	**Full Marks-70**
Permanent slides	15
Museum specimen	15
Larval forms	10

Comments on display charts provided	10
Practical record/Chart/Model	10
Viva-voce	10

Sl. No.	Name of Practicals/Experiments
1	Amphioxus: T.S through pharyngeal, intestinal, and caudal regions.
2	Herdmania: Whole mount, Spicules.
3	Cyclostomata: Petromyzon, Myxine
4	Fish: Scoliodon, Torpedo, Chimaera, Labeo, Exocoetus, Echeneis, Hippocampus; Scales of fishes.
5	Amphibia: Ichthyophis, Bufo, Hyla, Alytes, Salamandra,Axolotle larva.
6	Reptilia: Chelone, Hemidactylus, Varanus, Vipera, Naja, Bungarus, Uromastix, Chamaeleon, Draco,Calotes,Heloderma; Key for Identification of poisonous and non-poisonous snakes.
7	Aves: Types of beaks and claws, Study of pecten from fowl head and brain of fowl.
8	Mammalia: *Sorex*, Bat (Insectivorous and Frugivorous), *Funambulus, Loris, Herpestes, Erinaceous, Macropus, Echidna.*

Suggested Books:

- Young, J. Z. (2004). *The Life of Vertebrates*. III Edition. Oxford university press.
- Pough H. *Vertebrate life,* VIII Edition, Pearson International.
- Darlington P.J. *The Geographical Distribution of Animals*, R.E. Krieger Pub Co.
- Hall B. K. and Hallgrimsson B. (2008). *Strickberger's Evolution*. IV Edition. Jones and Bartlett Publishers Inc.
- Classification from Young, J. Z. (2004) to be followed.
- S. S. Lal, Practical Zoology Vertebrates.

Semester II
Minor Course 2 (MIC-2)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Diversity of Chordates	3	2	1

Course Outcomes: After completion of the course, the students will be able to:

CO-1: To understand the General Characteristics and Classification of Hemichordata, Urochordata and Cephalochordata, the Larval forms of Protochordata and Retrogressive Metamorphosis in Urochordata

CO-2: To acquire knowledge about the General Characters and Classification of Agnatha, Pisces and Amphibia.

CO-3: To understand the General Characteristics and Classification of Reptilia, Aves and Mammals, Biting Mechanism in Snakes, Flight Adaptations in Birds and Migration in Birds.

MIC-2: Diversity of Chordates (Theory: 2credits)20 hrs		
Unit	**Topics to be covered**	**No. of Lectures**
1	General characteristics and classification (upto Order): Cephalochordata, Urochordata, Cyclostomata, Pisces, Amphibia, Reptilia, Aves and Mammals.	5
2	Cephalochordata: *Amphioxus*. Urochordata: *Herdmania* (including retrogressive metamorphosis).	4
3	Pisces: *Scoliodon*. Reptilia: Biting and feeding mechanism in snakes.	5
4	Aves: Flight adaptations, Elementary idea of migration. Mammals: Characters, distribution and affinities of Prototheria and Metatheria.	6
	TOTAL	**20**

MIC-2: Diversity of Chordates (Practical: 1 Credits) 10 hrs	
End Semester Examination	
Time – 3 hours	**Full Marks-70**
Permanent slides	15
Museum specimen	15
Larval forms	10
Comments on display charts provided Practical record/Chart/Model	10
Viva-voce	10

Sl. No.	**Name of Practicals/Experiments**
1	Amphioxus: Section through pharyngeal, intestinal, and caudal regions.
2	Herdmania: Whole mount, Spicules.
3	Cyclostomata: *Petromyzon, Myxine*
4	Fish: *Scoliodon, Torpedo, Chimaera, Labeo, Exocoetus, Echeneis, Hippocampus*; Scales of fishes.
5	Amphibia: *Ichthyophis, Bufo, Hyla, Alytes, Salamandra*, Axolotle larva.
6	Reptilia: *Chelone, Hemidactylus, Varanus, Vipera, Naja, Bungarus, Uromastix, Chamaeleon, Draco, Calotes, Heloderma*; Key for Identification of poisonous and non-poisonous snakes.

7	Aves: Types of beaks and claws, Study of pecten from fowl head and brain of fowl.
8	Mammalia: *Sorex*, Bat (Insectivorous and Frugivorous), *Funambulus, Loris, Herpestes, Erinaceous, Macropus, Echidna.*

Suggested Books:

- Young, J. Z. (2004). *The Life of Vertebrates*. III Edition. Oxford university press.
- Pough H. *Vertebrate life,* VIII Edition, Pearson International.
- Darlington P.J. *The Geographical Distribution of Animals*, R.E. Krieger Pub Co.
- Hall B. K. and Hallgrimsson B. (2008). *Strickberger's Evolution*. IV Edition. Jones and Bartlett Publishers Inc.
- Classification from Young, J. Z. (2004) to be followed.
- S. S. Lal, Practical Zoology Vertebrates.

Semester II

Multidisciplinary Course 2 (MDC-2)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Diversity of Chordates	3	2	1

Course Outcomes: After completion of the course, the students will be able to:

CO-1: To understand the General Characteristics and Classification of Hemichordata, Urochordata and Cephalochordata, the Larval forms of Protochordata and Retrogressive Metamorphosis in Urochordata

CO-2: To acquire knowledge about the General Characters and Classification of Agnatha, Pisces and Amphibia.

CO-3: To understand the General Characteristics and Classification of Reptilia, Aves and Mammals, Biting Mechanism in Snakes, Flight Adaptations in Birds and Migration in Birds.

MDC-2: Diversity of Chordates (Theory: 2 Credits) 20 hrs		
Unit	**Topics to be covered**	**No. of Lectures**

1	General characteristics and classification (upto Order): Cephalochordata, Urochordata, Cyclostomata , Pisces, Amphibia, Reptilia, Aves and Mammals.	5
2	Cephalochordata: *Amphioxus*. Urochordata: *Herdmania* (including retrogressive metamorphosis).	4
3	Pisces: *Scoliodon*. Reptilia: Biting and feeding mechanism in snakes.	5
4	Aves: Flight adaptations, Elementary idea of migration. Mammals: Characters, distribution and affinities of Prototheria & Metatheria.	6
	TOTAL	**20**

MDC-2: Diversity of Chordates (Practical: 1 Credits) 10 hrs	
End Semester Examination	
Time – 3 hours	**Full Marks-70**
Permanent slides	15
Museum specimen	15
Larval forms	10
Comments on display charts provided Practical record/Chart/Model	10
Viva-voce	10

Sl. No.	**Name of Practicals/Experiments**
1	Amphioxus: Section through pharyngeal, intestinal, and caudal regions.
2	Herdmania: Whole mount, Spicules.
3	Cyclostomata: *Petromyzon*, *Myxine*
4	Fish: *Scoliodon*, *Torpedo*, *Chimaera*, *Labeo*, *Exocoetus*, *Echeneis*, *Hippocampus*; Scales of fishes.
5	Amphibia: *Ichthyophis*, *Bufo*, *Hyla*, *Alytes*, *Salamandra*, Axolotle larva.
6	Reptilia: *Chelone*, *Hemidactylus*, *Varanus*, *Vipera*, *Naja*, *Bungarus*, *Uromastix*, *Chamaeleon*, *Draco*, *Calotes*, *Heloderma*; Key for Identification of poisonous and non-poisonous snakes.
7	Aves: Types of beaks and claws, Study of pecten from fowl head and brain of fowl.
8	Mammalia: *Sorex*, Bat (Insectivorous and Frugivorous), *Funambulus, Loris, Herpestes, Erinaceous, Macropus, Echidna.*

Suggested Books:

- Young, J. Z. (2004). *The Life of Vertebrates*. III Edition. Oxford university press.
- Pough H. *Vertebrate life,* VIII Edition, Pearson International.
- Darlington P.J. *The Geographical Distribution of Animals*, R.E. Krieger Pub Co.
- Hall B. K. and Hallgrimsson B. (2008). *Strickberger's Evolution*. IV Edition. Jones and Bartlett Publishers Inc.
- Classification from Young, J. Z. (2004) to be followed.
- S. S. Lal, Practical Zoology Vertebrates.

Semester III

Major Course 3 (MJC-3)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Comparative Anatomy	5	3	2

Course Outcomes: Upon completion of the course, students should be able to:

CO-1: Explain comparative account of the different vertebrate systems

CO-2: Understand the pattern of vertebrate evolution, organization and functions of various systems.

CO-3: Learn the comparative account of integument, skeletal components, their functions and modifications in different vertebrates.

CO-4: Understand the evolution of heart, modification in aortic arches, structure of respiratory organs used in aquatic, terrestrial and aerial vertebrates; and digestive system and its anatomical specializations with respect to different diets and feeding habits.

CO-5: Learn the evolution of brain, sense organs and excretory organs to a complex, highly evolved form in mammals;

CO-6: Learn to analyze and critically evaluate the structure and functions of vertebrate systems, which helps them to discern the developmental, functional and evolutionary history of vertebrate species.

MJC-3: Comparative Anatomy of Vertebrates (Theory: 3 credits) 30 hrs		
Unit	**Topics to be covered**	**No. of lectures**

1	1. Integumentary System: Structure and derivatives of integument, functions of skin.	4
2	2. Skeletal System: Basic plan of axial and appendicular skeleton.	4
3	3. Digestive System: Alimentary canal and associated glands.	4
4	4. Respiratory System: Respiratory organs and accessory respiratory organs.	5
5	5. Circulatory System: 5.1 General plan of circulation. 5.2 Evolution of heart and aortic arches.	4
6	6. Urinogenital System: Evolution of kidney and urinogenital ducts.	4
7	7. Nervous System: Comparative account of Central nervous system and Peripheral nervous system.	5
	Total	**30**

MJC-3: Comparative Anatomy (Practical: 2 Credits) 20 hrs		
End Semester Examination Time – 3 hours		Full Marks-70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Study of placoid, cycloid and ctenoid scales of fish through permanent slides.	15
2	Study of afferent and efferent branchial vessels of Scoliodon through videos/models.	15
3	Study of digestive tract of frog/ rat through videos/models.	10
4	Disarticulated skeleton of Frog, Varanus, Fowl and Rabbit (Skull, Limb bones, Vertebral Column, Sternum, Girdles, Ribs)	10
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

• Kardong, K.V. (2005). Vertebrate's Comparative Anatomy, Function and Evolution. IV Edition. McGraw-Hill Higher Education.

• Kent, G.C. and Carr R.K. (2000). Comparative Anatomy of the Vertebrates. IX Edition. The McGraw-Hill Companies.

• Kotpal, R. L. (2010). Modern text book of zoology: vertebrates. Rastogi Publications.

Online Tools and Web Resources:

• SWAYAM (Structure of heart), Link https://www.swayamprabha.gov.in/index.php/program/archive/9.

• COURSERA (PALEONTOLOGY: Early vertebrate evolution, Link – https://www.coursera.org/learn/early-vertebrate-evolution).

Major Course 4 (MJC-4)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Physiology	4	3	1

Course Outcomes: Upon completion of the course, students will be able to:

CO-1: Know the principles of normal biological function in human body.

CO-2: Outline basic human physiology and correlate with histological structures.

CO-3: Comprehend and analyse problem-based questions on physiological aspects.

CO-4: Recognize and explain how all physiological systems work in unison to maintain homeostasis in the body; and use of feedback loops to control the same.

CO-5: Learn an integrative approach to understand the interactions of various organ systems resulting in the complex overall functioning of the body.

MJC-4: Physiology (Theory: 3 Credits) 30 hrs		
Unit	**Topics to be covered**	**No. of lectures**
1	1. Digestive System: 1.1 Digestion, Absorption and Assimilation of Carbohydrates, Protein and Lipid. 1.2 Digestive glands.	5
2	2. Neuromuscular Physiology: 2.1 Structurcof neuron, Propugation of nerve impulse. 2.3 Structure of skeletal muscle, Mechanism of muscle contraction 2.3 Neuromuscular junction.	5
3	3. Respiratory Physiology: 3.1 Ventilation and Internal Respiration. 3.2 Respiratory pigments. 3.3 Transport of gases in blood.	4
4	4. Cardiovascular System: 4.1 Components of blood and their function, blood coagulation. 4.2 Coronary circulation and heart beat. 4.3 Cardiac cycle and ECG. 4.4 Nervous and chemical regulation of heart rate.	8

5	5. Renal and Reproductive Physiology: 5.1 Structure of nephron and renal blood supply. 5.2 Mechanism of urine formation and its regulation. 5.3 Acid- Base balance. 5.4 Spermatogenesis and oogenesis. 5.5 Menstrual cycle.	8
	Total	**30**

MJC-4: Physiology (Practical: 1 Credit) 10hrs		
End Semester Examination **Time – 3 hours** **Full Marks-70**		
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Enumeration of red blood cells and white blood cells using haemocytometer,	10
2	Determination of erythrocyte sedimentation rate.	10
3	Estimation of haemoglobin.	10
4	Examination of histological sections of mammalian oesophagus, stomach, duodenum, ileum, rectum, trachea, lung, Testis and Ovary.	20
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

- Tortora, G.J.& Grabowski, S (2006) Principles of Anatomy & Physiology, XI edition. John Wiley & Sons
- Vander A, Sherman J, and Luciano D (2014). Vander's Human Physiology: The mechanism of Body Function. XIII Edition, Mc Graw Hills.
- Guyton, A.C & Hall, J.E. (2006). Textbook of Medical Physiology, XI Edition. Hercourt Asia PTE Ltd/W.B. Saunders Company

Online Tools and Web Resources:

- e portals like SWAYAM
- http://nsdl.niscair.res.in

Semester III
Minor Course 3 (MIC-3)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Physiology	3	2	1

Course Outcomes:

Upon completion of the course, students will be able to:

- Know the principles of normal biological function in human body.
- Outline basic human physiology and correlate with histological structures.
- Comprehend and analyse problem-based questions on physiological aspects.
- Recognize and explain how all physiological systems work in unison to maintain homeostasis in the body; and use of feedback loops to control the same.
- Learn an integrative approach to understand the interactions of various organ systems resulting in the complex overall functioning of the body.

MIC-3: Physiology (Theory: 2 credits) 20 hrs		
Unit	Topics to be covered	No. of lectures
1	1.1. Structure and function of digestive system, 1.2. Digestion and absorption of food.	3
2	2.1. Structure of neuron and propagation of nerve impulse. 2.2. Structure of skeletal muscle and mechanism of muscle contraction.	4
3	3.1. Structure of respiratory organs, pulmonary ventilation. 3.2. Transport of gases in blood.	4
4	4.1. Structure of excretory organs. 4.2. Mechanism of urine formation.	2
5	5.1. Structure and functions of heart. 5.2. Cardiac cycle.	2
6	6.1. Structure and functions of endocrine glands. 6.2. Spermatogenesis and oogenesis.	5
	Total	20

MIC-3: Physiology (Practical: 1 Credit)		10 hrs
End Semester Examination Time – 3 hours		Full Marks-70
Sl. No.	Name of Practicals/Experiments	Marks
1	Enumeration of red blood cells and white blood cells using haemocytometer,	10
2	Determination of erythrocyte sedimentation rate.	10
3	Estimation of haemoglobin.	10
4	Examination of histological sections of mammalian oesophagus, stomach, duodenum, ileum, rectum, trachea, lung, Testis and Ovary.	20
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

- Tortora, G.J.& Grabowski, S (2006) Principles of Anatomy & Physiology, XI edition. John Wiley & Sons
- Vander A, Sherman J, and Luciano D (2014). Vander's Human Physiology: The mechanism of Body Function. XIII Edition, Mc Graw Hills.
- Guyton, A.C & Hall, J.E. (2006). Textbook of Medical Physiology, XI Edition. Hercourt Asia PTE Ltd/W.B. Saunders Company

Online Tools and Web Resources:

- e portals like SWAYAM
  http://nsdl.niscair.res.in

Multidisciplinary Course 3 (MDC-3)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Physiology	3	2	1

Course Outcomes:

Upon completion of the course, students will be able to:

- Know the principles of normal biological function in human body.
- Outline basic human physiology and correlate with histological structures.
- Comprehend and analyse problem-based questions on physiological aspects.

- Recognize and explain how all physiological systems work in unison to maintain homeostasis in the body; and use of feedback loops to control the same.
- Learn an integrative approach to understand the interactions of various organ systems resulting in the complex overall functioning of the body.

MDC-3: Physiology (Theory: 2 credits) 20 hrs		
Unit	Topics to be covered	No. of lectures
1	1.1. Structure and function of digestive system, 1.2. Digestion and absorption of food.	3
2	2.1. Structure of neuron and propagation of nerve impulse. 2.2. Structure of skeletal muscle and mechanism of muscle contraction.	4
3	3.1. Structure of respiratory organs, pulmonary ventilation. 3.2.Transport of gases in blood.	4
4	4.1. Structure of excretory organs. 4.2. Mechanism of urine formation.	2
5	5.1. Structure and function of heart. 5.2. Cardiac cycle.	2
6	6.1. Structure and functionof endocrine glands. 6.2. Spermatogenesis and oogenesis.	5
	Total	20

MDC-3: Physiology (Practical: 1 Credit) **10 hrs**		
End Semester Examination		
Time – 3 hours		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Enumeration of red blood cells and white blood cells using haemocytometer,	10
2	Determination of erythrocyte sedimentation rate.	10
3	Estimation of haemoglobin.	10
4	Examination of histological sections of mammalian oesophagus, stomach, duodenum, ileum, rectum, trachea, lung, Testis and Ovary.	20
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

- Tortora, G.J.& Grabowski, S (2006) Principles of Anatomy & Physiology, XI edition.

John Wiley & Sons
- Vander A, Sherman J, and Luciano D (2014). Vander's Human Physiology: The mechanism of Body Function. XIII Edition, Mc Graw Hills.
- Guyton, A.C & Hall, J.E. (2006). Textbook of Medical Physiology, XI Edition. Hercourt Asia PTE Ltd/W.B. Saunders Company

Online Tools and Web Resources:
- e portals like SWAYAM
  http://nsdl.niscair.res.in

Semester IV
Major Course 5 (MJC-5)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Cell Biology	5	3	2

Course Outcome: Upon completion of the course, students should to be able to:
CO-1: Understand fundamental principles of cell biology.
CO-2: Explain structure and functions of cell organelles involved in diverse cellular processes.
CO-3: Appreciate how cells grow, divide, survive, die and regulate these important processes.
CO-4: Comprehend the process of cell signaling and its role in cellular functions.
CO-5: Have an insight of how defects in functioning of cell organelles and regulation of cellular processes can develop into diseases.
CO-6: Learn the advances made in the field of cell biology and their applications.

MJC-5: Cell Biology (Theory: 3 Credits) 30 hrs		
Unit	**Topics to be covered**	**No. of lectures**
1	1. Overview of Virus, Prokaryotic and Eukaryotic cells.	2
2	2. Plasma Membrane: 2.1 Various models of plasma membrane. 2.2 Transportacross membranes (passive and active transport).	6
3	3. Cytoplasmic organelles: 3.1 Endoplasmic Reticulum – Structure, Signal hypothesis. 3.2 Golgi apparatus – Structure, Protein sorting. 3.3 Lysosomes and Peroxisomes. 3.4 Mitochondria – Structure, Respiratory chain and oxidative phosphorylation.	10

4	4. Nucleus: 4.1 Structure of Nucleus. 4.2 Euchromatin and Heterochromatin.	6
5	5. Cell Division: 5.1 Cell cycle and Molecular basis of its regulation. 5.2 Mitosis and Meiosis.	6
	Total	**30**

MJC-5: Cell Biology (Practical: 2 Credits) 20hrs		
End Semester Examination Time – 3 hours Full Marks- 70		
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Vital staining of mitochondria in buccal epithelium	10
2	Preparation of temporary stained squash of onion root tip to study various stages of mitosis.	15
3	Study of various stages of meiosis through permanent slides.	10
4	Preparation of temporary stained mount to show the presence of Barr body in human female blood cells/ cheek cells. or Preparation of polytene chromosome from salivary gland of Chironomus larva.	15
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

- Cooper, G.M., Hausman, R.E. (2009) The Cell: A Molecular Approach. V Edition, ASMPress and Sinauer Associates.
- Karp, G. (2010). Cell and Molecular Biology: Concepts and Experiments,VI Edition, JohnWiley & Sons Inc.
- Powar, C. B. (1991) Cell Biology, Himalaya Publishing House

Online Tools and Web Resources:

· https://swayam.gov.in/course/150-cell-biology
· https://swayam.gov.in/courses/5173-biochemistry-and-cell-biology
· https://www.jove.com/science-education-library/9/cell-biology
· https://www.khanacademy.org/science/biology

Major Course 6 (MJC-6)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Endocrinology	5	3	2

Course Outcome: After completion of the course the students will be able to:

CO-1: Understand endocrine system and the basic properties of hormones.

CO-2: Appreciate the importance of endocrine system and the crucial role it plays along with thenervous system in maintenance of homeostasis.

CO-3: Gain insight into the molecular mechanism of hormone action and its regulation.

CO-4: Know the regulation of physiological process by the endocrine system and its implication indiseases.

CO-5: Gain knowledge about the prevalent endocrine disorders and critically analyze their ownand their family's health issues.

MJC-6: Endocrinology (Theory: 3 Credits) 30 hrs		
Unit	**Topics to be covered**	**No. of lectures**
1	1. Introduction to Endocrinology: 1.1 Overview of the endocrine system. 1.2 Classification of hormones and their synthesis.	6
2	2. Hypothalmo-hyphophysial system: 2.1 Structure of hypothalamus and its role in neuroendocrine regulation. 2.2 Structure of pituitary gland, its hormones and function. 2.3 Hormonal dysfunction associated with pituitary gland.	10
3.	3. Peripheral Endocrine Glands: 3.1 Functional histology, hormones and function of Thyroid, Parathyroid, Adrenal, Islets of Langerhans and Gonads. 3.2 Disorders related to hypersecretion and hyposecretion of hormones.	8
4.	4. Molecular Endocrinology: 4.1 Hormone receptors. 4.2 Mechanism of hormone action (Steroid and Non-steroid). 4.3 Regulation of hormone action.	6
	Total	**30**

MJC-6: Endocrinology (Practical: 2 Credits) 20 hrs		
End Semester Examination		
Time – 3 hours		Full Marks-70
Sl. No.	**Name of practicals/experiments**	**Marks**
1	Display of gonads, thyroid, adrenal, pancreas in mammal through videos/models	15
2	Study of the permanent slides of Pituitary, Adrenal, Ovary, Testes, Islets of Langerhan's, Thymus, Thyroid and Parathyroid, Study of the permanent slide of vaginal smears	4x5=20
3	Estimation of plasma level of any hormone using ELISA Or Chromatographic separation of steroid hormones using paper chromatography.	15
4	Practical Records/Charts/Models	10
5	Viva- voce.	10

Suggested Books:

- J. Larry Jameson Leslie De Groot (2010). Endocrinology. VI Edition.
- David O. Norris. Vertebrate Endocrinology. V Edition, Elsevier Academic press.
- Franklin F. Bolander. Molecular Endocrinology. III Edition, Academic Press, USA.

Online Tools and Web Resources:

- https://www.endocrine.org/topics

Major Course 7 (MJC- 7)

Course Outcome: Upon completion of the course, students should be able to:

CO-1: Demonstrate an understanding of key concepts in ecology with emphasis on historical perspective, role of physical factors and concept of limiting factors.

Course Title	Credit	Credit Distribution	
		Theory	Practical
Ecology	5	3	2

CO-2: Comprehend the population characteristics, dynamics, growth models and interactions.

CO-3: Understand the community characteristics, ecosystem development and climax theories.

CO-4: Know about the types of ecosystems, food chains, food webs, energy models and ecological efficiencies.

CO-5: Apply the basic principles of ecology in wildlife conservation and management.

CO-6: Inculcate scientific quantitative skills, evaluate experimental design, read graphs, andanalyse and use information available in scientific literature.

MJC-7: Ecology (Theory: 3 Credits) 30 hrs		
Unit	**Topics to be covered**	**No. of lectures**
1	1. Components of Ecology: 1.1 Biotic factors. 1.2 Abiotic factors. 1.3 Laws of limiting factors.	2
2	2. Ecosystem: 2.1 Definition, structure, and function of different types of ecosystems including wetland ecosystem. 2.2 Food chain and Food web. 2.3 Energy flow through the ecosystem, Ecological pyramids and Ecological efficiencies. 2.4 Biogeochemical cycles.	10
3	3. Population ecology: 3.1 Study of population attributes (Natality, Mortality, Density). 3.2 Life tables; Exponential and logistic growth, equation and patterns, r and k strategies. 3.3 Population interactions; Lotka-Volterra model.	6
4	4. Community Ecology: 4.1 Community characteristics: species richness, dominance, diversity, abundance, Ecotone and Edge effect. 4.2 Ecological succession with examples and types.	4
5	5. Applied Ecology: 5.1 Biodiversity - Importance and threats. 5.2 Wildlife conservation and management; National Parks, Bioreserves and Sanctuaries. 5.3 Pollution and its hazards.	8
	Total	**30**

MJC-7: Ecology (Practical: 2 Credits) 20 hrs		
End Semester Examination		
Time – 3 hours		Full Marks-70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Analysis of Soil/Pond Biota Or Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided.	10
2	Determination of dissolved oxygen and pH measurements of different water samples.	15
3	Determination of population density in a natural/ hypothetical community by quadrate method.	15
4	Report on a visit to National Park/Biodiversity Park/ Wild life sanctuary/Zoo.	10
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

· Odum, E.P. (2008). Fundamentals of Ecology. Indian Edition. Brooks/Cole

· Smith, R. L. (2000). Ecology and field biology. Harper and Row published

Semester IV
Minor Course 4 (MIC-4)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Ecology	**3**	**2**	**1**

Course Outcome: Upon completion of the course, students should be able to:

- Demonstrate an understanding of key concepts in ecology with emphasis on historical perspective, role of physical factors and concept of limiting factors.
- Comprehend the population characteristics, dynamics, growth models and interactions.
- Understand the community characteristics, ecosystem development and climax theories.
- Know about the types of ecosystems, food chains, food webs, energy models, and ecological efficiencies.
- Apply the basic principles of ecology in wildlife conservation and management.
- Inculcate scientific quantitative skills, evaluate experimental design, read graphs, and analyse and use information available in scientific literature.

MIC-4: Ecology (Theory: 2 Credits) 20 hrs		
Unit	Topics to be covered	No. of lectures
1	Introduction to Ecology, Scope of ecology, Laws of limiting factors.	2
2	Population dynamics, Demographic indices, Population interactions.	4
3	Community: Biodiversity and study of diversity index.	2
4	Ecosystem: Types of ecosystems, Detailed study of Aquatic ecosystem, Food chain, Food web, Ecological pyramids and Biogeochemical cycle.	7
5	Applied Ecology: Wildlife conservation; Importance, threats and management, Protected areas; National Parks, Bioreserves and Sanctuaries.	5
	Total	**20**

MIC- 4: Ecology (Practical: 1 Credit) 10hrs		
End Semester Examination Time – 3 hours		Full Marks- 70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Analysis of Pond Biota	10
2	Determination of dissolved oxygen of different water samples.	15
3	Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided.	15
4	Determination of population density in a natural/ hypothetical community by quadrate method.	10
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

- Odum, E.P. (2008). Fundamentals of Ecology. Indian Edition. Brooks/Cole
- Smith, R. L. (2000). Ecology and field biology. Harper and Row publisher
- Colinvaux, P.A. (1993). Ecology. John Willey $ Sons, Inc
- Krebs, C. J. (2001). Ecology. Benjamin Cummings.

Semester V

Major Course 8 (MJC-8)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Biochemistry	**5**	**3**	**2**

Course Outcome: After the completion of the course, the student will be able:

CO1- To understand the structure, classification and importance of Carbohydrates and Proteins.

CO2- To understand the structure and significance of physiologically important Lipids.

CO3- To understand the basic structure and types of DNA and RNA, Base pairing, denaturation and renaturation of DNA.

CO4- To understand the types of Enzymes, Mechanism of Enzyme Action and Enzyme Kinetics.

MJC-8: Biochemistry (Theory: 3 credits) 30 hrs		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Elementary idea of biomolecule: 1.1 Structure and classification of Carbohydrates, Lipid and Protein. 1.2 Structure, classification and physiological importance of Amino Acids. 1.3 Structure, classification and physiological importance of Vitamins.	10
2	2. Enzymes: 2.1 Nomenclature and classification, Isozymes. 2.2 Kinetics of enzyme-substrate reactions. 2.3 Regulation of enzyme action.	6
3	3. Carbohydrate Metabolism: 3.1 Glycolysis and Citric acid cycle. 3.2 Pentose Phosphate Pathway, Gluconeogenesis, Glycogenolysis and Glycogenesis.	8
4	4. Lipid and Protein Metabolism: 4.1 Beta oxidation and omega-oxidation of fatty acids, Ketogenesis. 4.2 Transamination, Deamination, Urea cycle.	6
	TOTAL	**30**

MJC 8 : Biochemistry (Practical: 2 credits) 20 hrs		
End Semester Examination		
Time – 3 hours		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Qualitative tests of carbohydrates, proteins and lipids.	20
2	Paper chromatography of amino acids.	15
3	Demonstration of impact of pH, temperature and inhibitors on the action of salivary amylase.	15
4	Practical Records/Charts/Models.	10
5	Viva- voce.	10

Suggested Books:

- Cox, M.M and Nelson, D.L. (2008). *Lehninger's Principles of Biochemistry*, V Edition, W.H. Freeman and Co., New York.

- Berg, J.M., Tymoczko, J.L. and Stryer, L. (2007). *Biochemistry*, VI Edition, W.H. Freeman and Co., New York.
- Murray, R.K., Bender, D.A., Botham, K.M., Kennelly, P.J., Rodwell, V.W. and Well, P.A. (2009). *Harper's Illustrated Biochemistry*, XXVIII Edition, International Edition, The McGraw- Hill Companies Inc.\
- Hames, B.D. and Hooper, N.M. (2000). *Instant Notes in Biochemistry*, II Edition, BIOS Scientific Publishers Ltd., U.K.

Major Course 9 (MJC-9)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Genetics	**5**	**3**	**2**

Course Outcome: After the completion of the course, the student will be able:

CO 1- To explain and discuss the genetic variation through linkage and crossing over.

CO 2- To describe sex-linked, sex limited and sex influenced inheritance.

CO 3- To understand the Concept behind genetic disorder, gene mutations and molecular basis of mutations and to explain the criteria for extra-chromosomal inheritance.

CO 4- To describe the molecular mechanisms of recombination in bacteria and to explain and distinguish the concept of transposable genetic elements in prokaryotes and eukaryotes. To Solve genetic based problems.

MJC-9 Genetics (Theory: 3 credits) 30 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Mendelian Genetics and Linkage: 1.1 Principles of inheritance, Incomplete dominance and co-dominance, Multiple alleles, Lethal alleles, Epistasis and Pleiotropy. 1.2 Linkage and crossing over; its cytological basis and molecular mechanisms, Recombination frequency, Interference and coincidence.	8
2	2. Mutations: 2.1 Gene mutation - Chemical and Physical mutagenesis. 2.2 Chromosomal aberrations – Structural and Numerical. 2.3 Detection of mutations in Drosophila - CLB method and attached *X* method.	8
3	3. Sex Determination: 3.1 Chromosomal mechanisms of sex determination. 3.2 Genetic and molecular basis of sex determination in *Drosophila*. 3.2 Sex-linked inheritance, sex-influenced and sex-limited characters.	6
4	4. Extra-chromosomal Inheritance and Quantitative Genetics:	8

	4.1 Criteria for extra-chromosomal inheritance. 4.2 Antibiotic resistance in *Chlamydomonas*, Kappa particles in *Paramoecium* and Maternal effects (Shell spiralling in *snail*). 4.3 Polygenic inheritance.	
	TOTAL	**30**

MJC-9 : Genetics (Practical: 2 credits) 20 hrs		
End Semester Examination **Time – 3 hours**		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Identification of various mutants of *Drosophila* in the given photograph/ specimen. Practical Records / charts / models. Viva-voce.	15
2	Calculate allelic/ genotypic frequencies using Hardy-Weinberg's Principle.	20
3	Solving problem based on Mendelian laws and Linkage map from *Drosophila* crosses.	15
4	Practical Records/Charts/Models.	10
5	Viva- voce.	10

Suggested Books:

- Gardner, E.J., Simmons, M.J., Snustad, D.P. (2008). *Principles ofGenetics*. VIII Edition. Wiley India
- Snustad, D.P., Simmons, M.J. (2009). *Principles of Genetics*. V Edition. John Wiley and Sons Inc
- Klug, W.S., Cummings, M.R., Spencer, C.A. (2012). *Concepts of Genetics*. X Edition. Benjamin Cummings
- Russell, P. J. (2009). *Genetics- A Molecular Approach.*III Edition. Benjamin Cummings
- Fletcher H. and Hickey I. (2015). *Genetics*. IV Edition. GS, Taylor and Francis Group, New York and London.

Semester V
Minor Course 5 (MIC-5)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Cell Biology	**3**	**2**	**1**

MIC-5: Cell Biology (Theory: 2 Credits) 20 hrs		
Unit	**Topics to be covered**	**No. of lectures**
1	Overview of Prokaryotic and Eukaryotic cells	2
2	Plasma Membrane: Fluid Mosaic Model, Active and passive transport.	3
3	Endomembrane System: Structure and Functions of Endoplasmic Reticulum, Golgi apparatus, Lysosomes and Peroxisomes.	4
4	Mitochondria: Structure, Respiratory chain and ATP production.	4
5	Nucleus: Structure of Nucleus and organization of Chromatin.	3
6	Cell cycle: Mitosis, Meiosis and their regulation in brief.	4
	Total	**20**

MIC-5: Cell Biology (Practical:1 Credit) 10 hrs		
End Semester Examination		
Time – 3 hours		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Vital staining of mitochondria in buccal epithelium	15
2	Study of various stages of mitosis through permanent slides. (any two)	5x2=10
3	Study of various stages of meiosis through permanent slides (any two)	5x2=10
4	Preparation of temporary stained mount to show the presence of Barr body in human cheek cells.	15
5	Practical Records/Charts/Models.	10
6	Viva- voce.	10

Suggested Books:

- Cooper, G.M., Hausman, R.E. (2009) The Cell: A Molecular Approach. V Edition, ASM Press and Sinauer Associates.
- Karp, G. (2010). Cell and Molecular Biology: Concepts and Experiments, VI Edition, John Wiley & Sons Inc.
- Powar, C. B. (1991) Cell Biology, Himalaya Publishing House.
- Alberts et al: Molecular Biology of the Cell (2008, Garland)

Minor Course 6 (MIC-6)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Genetics	3	2	1

Course Outcome:

- To understand variation, linkage and crossing over.
- To understand sex linked inheritance.
- To understand genetic disorders and mutations.
- To understand extra chromosomal inheritance.

MIC - 6 Genetics (Theory: 2 credits) 20 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	1.1 Principles of Genetic inheritance, Incomplete dominance and co-dominance. 1.2 Concept of Linkage and crossing over.	5
2	2.1 Gene mutation - Chemical and Physical mutagenesis. 2.2 Chromosomal aberrations – Structural and Numerical.	4
3	3.1 Chromosomal mechanisms of sex determination. 3.2 Sex-linked inheritance, sex-influenced and sex-limited characters.	6
4	4.1. Extra-chromosomal Inheritance. 4.2 Kappa particles in *Paramoecium* and Maternal effects (Shell spiralling in *snail*).	5
	TOTAL	**20**

MIC-06 : Genetics (Practical: 1 Credit) 10 hrs		
End Semester Examination		
Time – 3 hours		Full Marks-70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Preparation of Polytene chromosomes from Chironomous/Drosophila.	20
2	Identification of various mutants of Drosophila in the given photograph.	15
3	Study of pedigree analysis of human inherited traits.	15
4	Practical Records/Charts/Models.	10
5	Viva- voce.	10

Suggested Books:

- Gardner, E. J., Simmons, M. J., Snustad, D. P. (2008). *Principles of Genetics*. VIII Edition. Wiley, India
- Snustad, D. P., Simmons, M. J. (2009). *Principles of Genetics*. V Edition. John Wiley and Sons Inc
- Klug, W. S., Cummings, M. R., Spencer, C.A. (2012). *Concepts of Genetics*. X Edition. Benjamin Cummings
- Russell, P. J. (2009). *Genetics- A Molecular Approach*. III Edition. Benjamin Cummings
- Fletcher H. and Hickey I. (2015). *Genetics*. IV Edition. G S, Taylor and Francis Group, New York and London.

Semester VI

Major Course 10 (MJC-10)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Developmental Biology	**4**	**3**	**1**

Course Outcome: After the completion of the course, the student will be able:

CO 1- To describe the mechanism of gametogenesis, fertilization and blocks to polyspermy.

CO 2- To explain early embryonic development in frog and chick.

CO 3- To understand the concepts of late embryonic development in model organisms.

CO4 - To describe post embryonic development such as metamorphosis and regeneration with suitable examples and apply important experiments and project work.

MJC-10: Developmental Biology (Theory: 3 credits) 30 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Introduction: 1.1 Principles and Basic concepts of development biology - Phases of development, Cell-Cell interaction, Differentiation and growth 1.2 Gametogenesis: Spermatogenesis and Oogenesis.	10

	1.3 Mechanism of fertilization, Types of eggs and cleavage, Blastulation, Fate maps (including Techniques).	
2	2. Early and Late Embryonic Development: 2.1 Early development of frog and chick up to gastrulation. 2.2 Late Embryonic Development: Fate of Germ Layers, Extra-embryonic membranes in birds, Placentation.	8
3	3. Post Embryonic Development: 3.1 Metamorphosis: Changes, hormonal regulations in amphibians. 3.2 Regeneration: Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each).	6
4	4. Implications of Developmental Biology: 4.1 Teratogenesis: Teratogenic agents and their effects on embryonic development. 4.2 In vitro fertilization, Stem cell, Amniocentesis. 4.3 Basic concept of Aging and senescence.	6
	TOTAL	**30**

MJC-10: Developmental Biology (Practical: 1 Credit) 10 hrs		
End Semester Examination **Time – 3 hours** **Full Marks-70**		
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Study of whole mounts and sections of developmental stages of frog through permanent slides: Cleavage stages, blastula, gastrula, neurula, tail-bud stage, tadpole (external and internal gill stages).	2x5=10
2	Study of whole mounts of developmental stages of chick through permanent slides (Different hours of incubation).	5x3=15
3	Study of the developmental stages and life cycle of Drosophila from stock culture.	15
4	Study of different sections of placenta (Photomicrograph/ slides).	10
5	Practical Records/Charts/Models.	10
6	Viva-voce.	10

Suggested Books:

- Gilbert, S. F. (2010). Developmental Biology, IX Edition, Sinauer Associates, Inc., Publishers, Sunderland, Massachusetts, USA
- Balinsky B. I. and Fabian B. C. (1981). An Introduction to Embryology, V Edition, International Thompson Computer Press
- Carlson, R. F. Patten's Foundations of Embryology
- Kalthoff (2008). Analysis of Biological Development, II Edition, McGraw-Hill PublishersLewis Wolpert (2002).
- Principles of Development. II Edition, Oxford University Press

Major Course 11 (MJC-11)

Course Title	Credit	Credit Distribution

		Theory	Practical
Evolution	**5**	**3**	**2**

Course Outcome: After the completion of the course, the student will be able:

CO 1- To understand the basis of origin of life such as: chemogeny, RNA world, biogeny and evolution of eukaryotes.

CO 2- To obtain the various evolutionary concepts and heritable variation and to understand concept of species, isolating mechanisms, modes of speciation and adaptive radiation.

CO 3- To explain and different types of fossils, geological time scale, climatic conditions, hominid characteristics, primate phylogeny and evolution of horse and man.

CO 4- To understand Hardy-Weinberg principle of genetic equilibrium and its destabilizing forces such as Natural selection, Mutation, Migration and genetic drift.

MJC-11: Evolution (Theory: 3 credits) 30 hours		
Unit	**Topics to be covered**	**No. of hours**
1	1. Origin of Life: 1.1 Chemogeny and RNA World. 1.2 Evolution of Eukaryotes.	6
2	2. Evolutionary concepts: 2.1 Lamarckism, Darwinism and Neo-Darwinism. 2.2 Types and causes of Variation and their role in evolution.	8
3	3. Evidences of Evolution: 3.1 Evidences of Organic Evolution. 3.2 Types of fossils and geological time scale. 3.2 Evolution of horse and man. 3.3 Human migration-Theories, Mitochondrial DNA and Y-chromosome studies.	8
4	4. Population Genetics: 4.1 Hardy-weinberg Law, gene pool and allele frequency. 4.2 Natural selection (concept of fitness, types of selection, kin selection). 4.3 Genetic Drift (mechanism, founder's effect, bottleneck phenomenon).	8
	TOTAL	30

MJC-11: Evolutionary Biology (Practical: 2 Credits) 20 hrs		
End Semester Examination Time – 3 hours		Full Marks-70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Study of types of fossils, Archaeopteryx.	15
2	Vestigial, Analogous and Homologous organs using suitable specimens or Sampling for discrete characteristics (dominant vs recessive) for discontinuous variations e.g. hitch-hiker's thumb, tongue rolling and ear lobe.	15
3	Calculation of genotypic, phenotypic and allelic frequencies from the data provided.	20
4	Practical records/ charts/ models	10
5	Viva- voce.	10

Suggested Books:

- Ridley, M. (2004). Evolution III Edition Blackwell publishing
- Hall, B.K. and Hallgrimson, B (2008). Evolution IV Edition. Jones and Barlett Publishers.
- Douglas, J. Futuyma (1997). Evolutionary Biology. Sinauer Associates.
- Snustad. S Principles of Genetics.
- Pevsner, J (2009). Bioinformatics and Functional Genomics. II Edition Wiley-Blackwell
- Savage, Evolution

Major Course 12 (MJC-12)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Animal Behaviour	**5**	**3**	**2**

Course Outcomes- After the completion of the course, the student will be able:

CO 1- To understand various pattern of animal behaviours such as stereotyped, instinct, learnt, associative behaviour along with operant conditioning and habituation imprinting and to explain the concept of social and sexual behaviour.

CO 2- To provide the concept of biological rhythm, photoperiod and regulation of seasonal reproduction of vertebrates and role of melatonin.

CO 3- To understand the relevance of biological clock in terms of chronopharmacology, chronomedicine and chronotherapy.

CO 4- To develop the skill in this course by performing practical works such as studying nest and nesting habitat of birds and social insects and other significant experiments.

MJC-12: Animal Behaviour (Theory: 3 credits) 30 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Introduction to Animal Behaviour: 1.1 Definition of behaviour. 1.2 Brief profile of modern ethologists (Karl von Frisch, Ivan Pavlov, Konrad Lorenz, Niko Tinbergen). 1.3 Proximate and ultimate causes of behaviour.	6
2	2. Patterns of behaviour and its Control: 2.1 Stereotyped Behaviour; Orientation and Reflex. 2.2 Innate and Learned behaviours.	8
3	3. Biological Rhythm: 3.1 Biological clocks in animals, Adaptive significance of biological clocks 3.2 Types of biological rhythms- Tidal, Lunar, Circadian and Circannual 3.3 Role of melatonin	8
4	4. Social and Sexual Behaviour: 4.1 Social behaviour of insects (Honey bee), Foraging and dances in honey bee. 4.2 Parental care in fishes and amphibians.	8
	TOTAL	**30**

MJC-12: Animal Behaviour (Practical: 2 Credits) 20 hrs		
End Semester Examination		
Time – 3 hours		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Study of the pattern of Behaviour (any one of the followings) a) Photo Tactile Response in Earthworms or *Paramecium*. b) Geotactic Response of Earthworm or Pest.	15
2	Comment upon the given specimen with response to parental care – Ichthyophis, Alytes and Hippocampus etc.	15
3	Submit and write-up on any one of the given topic: a) Courtship in Peacock /Pigeons b) Maternal Behavior in Rats /Cats c) Study of nests and nesting behavior of the birds and social insects d) Study of honey bee hive	20
4	Practical records/ charts/ models	10
5	Viva- voce.	10

Mayank.

Suggested Books:

- David McFarland, Animal Behaviour, Pitman Publishing Limited, London, UK.
- Manning, A. and Dawkins, M. S, An Introduction to Animal Behaviour, Cambridge,University Press, UK.
- John Alcock, Animal Behaviour, Sinauer Associate Inc., USA.
- Paul W. Sherman and John Alcock, Exploring Animal Behaviour, Sinauer Associate Inc., Massachusetts, USA.
- Biological Rhythms: Vinod Kumar (2002) Narosa Publishing House, Delhi/ Springer-Verlag, Germany.

Semester VI
Minor Course 7 (MIC-7)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Evolution	3	2	1

MIC-7: Evolution (Theory: 2 Credits) 20 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	Origin of Life: Chemogeny and Biogeny	4
2	Evolutionary concepts: A brief account of evolutionary theories: Lamarckism, Darwinism and Neo- Darwinism.	8
3	Evidences of Evolution, Evolution of man.	6
4	Population Genetics: Hardy-Weinberg Law	2
	TOTAL	20

MIC-7: Evolutionary Biology (Practical: 1 Credits) 10 hrs		
End Semester Examination		
Time – 3 hours		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Study of types of fossils (Archaeopteryx- a connecting link)	10
2	Vestigial, Analogous and Homologous organs using suitable specimens.	15
3	Sampling for discrete characteristics (dominant vs recessive) for discontinuous variations e.g., tongue rolling, ear lobe.	10
4	Calculation of genotypic, phenotypic and allelic frequencies from the data provided	15
5	Practical records/ charts/ models	10
6	Viva- voce.	10

Suggested Books:

- Ridley, M. (2004). Evolution III Edition Blackwell publishing
- Hall, B.K. and Hallgrimson, B (2008). Evolution IV Edition. Jones and Barlett Publishers.
- Douglas, J. Futuyma (1997). Evolutionary Biology. Sinauer Associates.
- Pevsner, J (2009). Bioinformatics and Functional Genomics. II Edition Wiley-Blackwell

Minor Course 08 (MIC-08)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Developmental Biology	**3**	**2**	**1**

Course Outcome: After the completion of the course, the student will be able:

CO 1- To describe the mechanism of gametogenesis, fertilization.

CO 2- To explain early embryonic development in frog and chick.

CO 3- To understand the concepts of late embryonic development in model organisms.

CO4 - To describe post embryonic development such as metamorphosis and regeneration with suitable examples and apply important experiments and project work.

MIC-08 : Developmental Biology (Theory: 2 credits) 20 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction: 1. Basic concepts of reproduction and development.	4
2	Early and Late Embryonic Development: 2.1 Gametogenesis - Spermatogenesis, Oogenesis. 2.2 Types of eggs, Patterns of cleavage and Blastulation. 2.3 Early development of frog up to gastrulation, 2.4 Extra-embryonic membranes in birds.	6
3	Post Embryonic Development: 3.1 Metamorphosis: Changes, hormonal regulations in amphibians; 3.3 Ageing: Concepts and Theories	5
4	Implications of Developmental Biology: 4.1 Teratogenesis: Teratogenic agents and their effects on embryonic development. 4.2 In vitro fertilization.	5
	TOTAL	20

MIC-08: Developmental Biology (Practical: 1 Credit) 10 hrs		
End Semester Examination Time – 3 hours		Full Marks-70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Study of whole mounts and sections of developmental stages of frog through permanent slides: Cleavage stages, blastula, gastrula.	20
2	Study of whole mounts of developmental stages of chick through permanent slides: Primitive streak 18, 24, 36, 48, 72, and 96 hours of incubation.	20
3	Study of different sections of placenta (Photomicropgraph/ slides)	10
4	Practical/Project report on chick embryo development.	10
5	Viva- voce.	10

Suggested Books:

- Gilbert, S. F. (2010). Developmental Biology, IX Edition, Sinauer Associates, Inc., Publishers, Sunderland, Massachusetts, USA
- Balinsky B. I. and Fabian B. C. (1981). An Introduction to Embryology, V Edition, International Thompson Computer Press.
- Carlson, R. F. Patten's Foundations of Embryology.
- Kalthoff (2008). Analysis of Biological Development, II Edition, McGraw Hill Publishers.
- Lewis Wolpert (2002). Principles of Development. II Edition, Oxford University Press.

Semester VII

Major Course 13 (MJC-13)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Molecular Biology	**5**	**3**	**2**

Course Outcome: After the completion of the course, the student will be able:

CO 1- To understand Central dogma of molecular biology. Explain and distinguish mechanism of replication, transcription and translation in prokaryotes and eukaryotes.

CO 2- To understand and explain the post transcriptional modifications in eukaryotes.

CO 3- To explain and differentiate the mechanism of gene expression and regulation in prokaryotes and eukaryotes

CO 4- To describe the concept of regulatory RNAs, Ribo-switches and RNA interference and to enhance skill in molecular biology through relevant experiments.

MJC-13: Molecular Biology (Theory: 3 credits) 30 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Basics of Nucleic Acid: 1.1 Central Dogma of Molecular Biology. 1.2 Structure of DNA, DNA forms, Repetitive DNA. 1.3 Structure and functions of mRNA, tRNA, and rRNA.	8
2	2. DNA replication and repair: 2.1 DNA replication in prokaryotes. 2.2 DNA repair, mismatch repair, Base excision repair (BER), Nucleotide excision repair (NER). 2.3 Difference between prokaryotic and eukaryotic replication (A brief account)	8
3	3. Transcription: 3.1 Mechanism of transcription in prokaryotes. 3.2 Difference between prokaryotic and eukaryotic transcription (A brief account).	6
4	4. Translation: 4.1 Genetic code, degeneracy of genetic code and Wobble hypothesis. 4.2 Structure of ribosomes. 4.3 Mechanism of translation in prokaryotes. 4.4 Difference between prokaryotes and eukaryotes translation (A brief account).	8
	TOTAL	30

MJC-13: Molecular Biology (Practical: 2 Credits) 20 hrs		
End Semester Examination		
Time – 3 hours		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Demonstration of DNA by Feulgen reaction or RNA by Methyl Green Pyronin (MGP) method.	20
2	Isolation of plasmid/genomic DNA or Restriction digestion of DNA.	15
3	DNA gel electrophoresis or Preparation of nucleotide model by beads and sticks.	15
4	Practical/Project report on chick embryo development.	10
5	Viva- voce.	10

Suggested Books :

- Becker, W.M., Kleinsmith, L.J., Hardin. J. and Bertoni, G. P. (2009). *The World of the Cell.* VII Edition. Pearson Benjamin Cummings Publishing, San Francisco.
- Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter:*Molecular Biology of the Cell,* IV Edition.
- Cooper G. M. and Robert E. Hausman R. E. *The Cell: A Molecular Approach,* V Edition, ASM Press and Sinauer Associates.
- De Robertis, E.D.P. and De Robertis, E.M.F. (2006). *Cell and Molecular Biology.* VIII Edition. Lippincott Williams and Wilkins, Philadelphia.
- Karp, G. (2010) *Cell and Molecular Biology: Concepts and Experiments.* VI Edition. John Wiley and Sons. Inc.

Major Course 14 (MJC-14)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Research Methodology	**5**	**5**	**0**

Common Syllabus of MJC -14 for all the subjects of the Faculty of Sciences has been separately prepared.

Major Course 15 (MJC-15)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Immunology and Microbiology	**6**	**4**	**2**

Course Outcomes: After the completion of the course, the student will be able:

CO 1- To explain cells and organs of the immune system, innate and adaptive immunity.

CO 2- To describe autoimmunity with reference to rheumatoid arthritis and tolerance and AIDS.

CO 3- To understand antigens and its type, structure and functions of immunoglobulins, antigen-antibody interactions and immunoassays (such as ELISA and RIA).

CO 4- To explain structure and functions major histocompatibility complex, know the concept of hypersensitivity and vaccines.

CO 5- To understand the microbial basis of diseases.

MJC-15 : Immunology and Microbiology (Theory: 4 credits) 40 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Basic Concept of immunity: 1.1 Overview of Immune System, Cells and organs of Immune system.	10

	1.2 Innate and Adaptive Immunity - Anatomical barriers, Inflammation and Phagocytosis, Mechanism of cell and humoral mediated immunity, Active and Passive immunity.	
2	2. Antigen and Immunoglobulin: 2.1 Antigens; Antigenicity vs immunogenicity, Factors influencing immunogenicity, Adjuvants and haptens. 2.2 Immunoglobulins: Structure and functions of different classes of immunoglobulins, Antigen-antibody interactions	8
3	3. MHC and Cytokines: 3.1 Major Histocompatibility Complex: Structure and functions of MHC I and II, Antigen processing and presentation. 3.2 Cytokines – Types and function.	6
4	4. Complement system and Vaccines: 4.1 Complement System: Components and pathways of complement activation. 4. 2 Vaccines: Various types of vaccines.	6
5	5. Microbiology: 5.1 Bacteria; Structure, Classification, Growth, Culture and Pathogenicity. 5.2 Virus; Morphology and Pathogenicity. 5.3 A brief outline of endoparasitic diseases.	10
	TOTAL	**40**

MJC-15 : Immunology and Microbiology (Practical: 2 Credits) 20 hrs		
End Semester Examination **Time – 3 hours**		**Full Marks-70**
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Determination of ABO blood group using ABD antisera method.	15
2	Study of lymphoid organs: (i) Kidney (ii) Spleen (iii) Bone marrow (iv) Lymph node	15
3	Comment upon working principle of RIA, Flow Cytometry, ELISA.	10
4	Culture and Gram staining of Bacteria	10
5	Practical/Project report on chick embryo development.	10
6	Viva- voce.	10

Suggested Books:

- Kindt, T. J., Goldsby, R.A., Osborne, B. A. and Kuby, J (2006). *Immunology*, VI Edition. W.H. Publication.

- David, M., Jonathan, B., David, R. B. and Ivan R. (2006). *Immunology*, VII Edition, Mosby, Elsevier Edition. Saunders Publication.
- Abbas, K.Abul and Lechtman H. Andrew (2003.) *Cellular and Molecular Immunology*. V
- Owen J A, Punt J, Stanford S A (2013). *Kuby Immunology* W H Freeman & Co;
- Wood P. (2007). Basic Immunology. Pearson publication
- Principles of Microbiology, Ronald M. Atlas, Wm. C. Brown Publishers.
- Microbiology by Pelczar, M. J. Pelczar.

Minor Course 09

(MIC-09)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Animal Behaviour	**3**	**2**	**1**

Course Outcomes: After the completion of the course, the student will be able:

CO 1- To understand various pattern of animal behaviours such as stereotyped, instinct, learnt, associative behaviour along with operant conditioning and habituation imprinting and to explain the concept of social and sexual behaviour.

CO 2- To provide the concept of biological rhythm, photoperiod and regulation of seasonal reproduction of vertebrates and role of melatonin.

CO 3- To understand the relevance of biological clock in terms of chronopharmacology, chronomedicine and chronotherapy.

CO 4- To develop the skill in this course by performing practical works such as studying nest and nesting habitat of birds and social insects and other significant experiments.

MIC-09 : Animal Behaviour (Theory: 2 credits) 20 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to Animal Behaviour: 1.1 Definition and types of behaviour 1.2 Origin and history of ethology.	5
2	Patterns of Behaviour: 2.1 Instinct behaviours. 2.2 Learned behaviours.	5
3	Biological Rhythm: 3.1 Biological clocks in animals and its adaptive significance. 3.2 Types of biological rhythms- Tidal, Lunar, Circadian and Circannual.	5
4	Social Behaviour: 4.1 Social behaviour in insects (Honey bee). 4.2 Parental care in fishes.	5
	TOTAL	**20**

MIC-09: Animal Behaviour (Practical: 1 Credit) 10 hrs		
End Semester Examination Time – 3 hours		Full Marks-70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Study of the pattern of Behaviour (any one of the followings) a) Photo Tactile Response in Earthworm or Pest. b) Geotactic Response of Earthworm or Pest.	15
2	Comment upon the given specimen with response to parental care - Ichthyophis, Hippocampus etc.	15
3	Submit and write up on any one of the given topic. a) Courtship in Peacock /Pigeons b) Study of nests and nesting behavior of the birds and social insects	20
4	Practical/Project report on chick embryo development.	10
5	Viva- voce.	10

Suggested Books:

- David McFarland, Animal Behaviour, Pitman Publishing Limited, London, UK.
- Manning, A. and Dawkins, M. S, An Introduction to Animal Behaviour, Cambridge,University Press, UK.
- John Alcock, Animal Behaviour, Sinauer Associate Inc., USA.
- Paul W. Sherman and John Alcock, Exploring Animal Behaviour, Sinauer Associate Inc., Massachusetts, USA.
- Biological Rhythms: Vinod Kumar (2002) Narosa Publishing House, Delhi/ Springer-Verlag, Germany.

Minor Course 10 (MIC-10)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Endocrinology	**3**	**2**	**1**

Course Outcome:

After completion of the course the students will be able to:

• Understand endocrine system and the basic properties of hormones.
• Appreciate the importance of endocrine system and the crucial role it plays along with the nervous system in maintenance of homeostasis.
• Know the of hormone action and its regulation.
• Know the regulation of physiological process by the endocrine system and its implicationin diseases.

MIC-10: Endocrinology (Practical: 1Credits) 10 hrs		
End Semester Examination		
Time – 3 hours		Full Marks-70
Sl. No.	**Name of Practicals/Experiments**	**Marks**
1	Display of gonads, thyroid, adrenal, pancreas in mammal through videos or virtual dissection.	15
2	Study of the permanent slides of Pituitary, Adrenal, Ovary, Testes, Islets of Langerhan's, Thymus, Thyroid, Parathyroid.	4X5=20
3	Working principles of ELISA/RIA	15
4	Practical/Project report on chick embryo development.	10
5	Viva- voce.	10

MIC-10: Endocrinology (Theory: 3 credits) 20 hrs		
Unit	**Topics to be covered**	**No. of lectures**
1	1. Overview of the endocrine system – Glands and their hormone.	5
2	2. Hypothalamus: Structure and its functions.	5
3	3. Pituitary: Structure, Hormones and their function.	5
4	4.1 Peripheral Endocrine Glands: Histophysiology of Thyroid, Parathyroid and Adrenal. 4.2. Gonads: Hormones and functions.	5
	Total	20

Suggested Books:

• J. Larry Jameson Leslie De Groot (2010). Endocrinology. VI Edition.

• David O. Norris. Vertebrate Endocrinology. V Edition, Elsevier Academic press.
• Franklin F. Bolander. Molecular Endocrinology. III Edition, Academic Press, USA.

Online Tools and Web Resources:

• https://www.endocrine.org/topics

Semester VIII

Major Course 16 (MJC-16)

Course Title	Credit	Credit Distribution	
		Theory	Practical
Instrumentation and Biometry	**4**	**4**	**0**

Course Outcomes: After the completion of the course, the student will be able:

CO1: To understand the principles and working of various instruments used in biological experimentation.

CO2: Gain insight of relationship between mathematics and biology

CO3: To present their data in statistically reliable form

CO4: To test their hypothesis using different models

CO5: To correlate their data with different factors

MJC-16: Instrumentation and Biometry (Theory: 4 credits) 40 hours		
Unit	**Topics to be covered**	**No. of Lectures**
1	1. Instrumentation: 1.1 Principle and uses of: pH meter, Colorimeter, Spectrophotometer, Centrifuge. 1.2 Microscopy: Light microscope, Compound microscope, Phase contrast, Fluorescent and Electron Microscope.	10
2.	2. Biological Techniques: 2.1 Electrophoresis - Agarose gel, SDS-PAGE electrophoresis. 2.2 Chromatography - Column, GLC. 2.3 Cell separation by density gradient centrifugation. 2.4 Introduction to different culture medium and tools used. 2.5 PCR 2.6 Recombinant DNA Technology	10
3	3. Introduction to Biometry: 3.1 Concept of data and graphical presentation of data. 3.2 Measures of central tendency: mean, mode and median. 3.3 Measures of dispersion, standard deviation, standard error. 3.4 Types of variables; Poisson, Binomial and Normal distribution. 3.5 Experimental design and hypothesis testing.	10
4	Tests of Significance: 4.1 Test of significance: t-test, F-test, chi square test 4.2 Multiple linear regression – ANOVA (One way and two-way ANOVA). 4.3 Correlation and simple linear regression 4.4 Karl-Pearson correlation coefficient and Ranks correlation coefficient	10
	TOTAL	40

Suggested Books :

- AB Khanal (2016). Mahajan's Methods inBiostatistics for Medical Students and Research Workers. Jaypee Brothers Medical Publishers.

- Jerrold H. Zar (2009).Biostatistical analysis.Pearson publication.
- RC Elston and WD Johnson (2008). Basic Biostatistics for Geneticists and Epidemiologists. Wiley publication.
- Norman TJ Bailey (2000). Statistical Methods in Biology. Published by: Cambridge University Press
- Biological instrumentation and Methodology, P. K. Bajpai.
- Instrumentation: Theory and Application, S. Sheel.

Virtual Labs:

1. http://www.vlab.co.in
2. http://zoologygysan.blogpost.com
3. www.onlinelabs.in
4. www.labinapp.com
5. www.uwlax.edu
6. info@premierreducationaltechnologyies.com

To,

The Principal Secretary
Raj Bhawan Bihar,
Patna

Sub: ` Regarding submission of proposed course uniform syllabus of B.A. (Hons.) Sanskrit for 3rd to 8th Semester of 4-Year Under Graduate Course, (CBCS).

Reference :- Letter no. BSU (UGC) – **02/2023-1457/GS(I)** Dated 14.09.2023

Sir,

In compliance with your letter no. BSU (UGC) – 02/2023-1457/GS(I) Dated 14.09.2023 followed by above mentioned letter no, we are submitting the proposed course syllabus of **B.A. (Hons) Sanskrit** for 3rd to 8th Semester of 4-Year Under Graduate Course, (CBCS) as per UGC Regulations.

Yours Sincerely,

21/9/23

Prof. Shriprakash Rai
Professor, P.G. Dept. of Sanskrit
VKU, Ara.
Mob.- 943089582
Email – shriprakashrai71@gmail.com

21/09/2023

Prof. Lakshmi Narayan
Professor & H.O.D., P.G. Dept. of Sanskrit
Patna University, Patna
Mob.- 9263552107
Email – lakshminarayan129@gmail.com

21.09.2023

Prof. Mohan Mishra
Professor (Rtd.), P.G. Dept. of Sanskrit
TMBU, Bhagalpur.
Mob.- 9835438491
Email – mohanmishra.bgp@gmail.com

21.9.23

Prof. (Dr.) Baidyanath Mishra
Professor & H.O.D. , P.G. Dept. of Sanskrit
J. P. University, Chhapara
Mob.- 8210623145
Email -bnmishra.jpu@gmail.com

21.9.2023

Dr. Vishvajeet Kumar
H.O.D., Dept. of Sanskrit
R. D. & D. J. College,
Munger University, Munger
Mob.- 9213573212
Email – v.jeetverma@gmail.com

21.9.23

Dr. Mamta Snehi
P.G. Dept. of Sanskrit
LNMU, Darbhanga
Mob.- 9717491097
Email – mamtasnehi111@gmail.com

21.9.23

Dr. Shyama Kant Jha
Associate Professor,
P.G. Deptt. Of Sanskrit,
B.N.M.U, Madhepura
Mobile No. 9431804323
Email Id: shyamakantjharmc@gmail.com

Prof. Manoj Kumar
Prof. & H.O.D.
P.G. Deptt. Of Sanskrit,
B.R.A.B.U., Muzaffarpur
Mobile No. 9430279555
Email Id: dr.nkbrabu@gmail.com

21.9.23

Dr. Rekha Rani
Associate Professor,
P.G. Deptt. Of Sanskrit,
B.D. College, P.P.U., Patna
Mobile No. 7970453282
Email Id: rekharani2260@gmail.com

रमेश: 21-9-23

Dr. Ramesh Kumar Jha
Assistant Professor
J.N.B. Adarsh Sanskrit Mahavidyalaya
Lagama, Darbhanga (CSU, New Delhi).
Mobile No. 7992449505
Email Id: rkjharimjim@gmail.com

MAJOR COURSES (MJC)

Bachelor of Arts (Honours) Sanskrit.

क्रम संख्या	सेमेस्टर	Types of Course	Name of Course	Credit	Marks
1	I	MJC- 1	संस्कृत–व्याकरण	06	100
2	II	MJC- 2	संस्कृत पद्यकाव्य	06	100
3	III	MJC- 3	संस्कृत साहित्य का इतिहास	05	100
4	III	MJC- 4	वेद एवं उपनिषद्	04	100
5	IV	MJC- 5	संस्कृत–काव्यशास्त्र	05	100
6	IV	MJC- 6	संस्कृत–नाटक	05	100
7	IV	MJC- 7	संस्कृत–व्याकरण	05	100
8	V	MJC- 8	भारतीय दर्शन	05	100
9	V	MJC- 9	श्रीमद्भगवद्गीता	05	100
10	VI	MJC- 10	संस्कृत–गद्य–साहित्य	04	100
11	VI	MJC- 11	संस्कृत–व्याकरण	05	100
12	VI	MJC- 12	संस्कृत–रचना	05	100
13	VII	MJC- 13	संस्कृत–महाकाव्य	05	100
14	VII	MJC- 14	संस्कृत कथा–साहित्य	05	100
15	VII	MJC- 15	संस्कृत व्याकरण एवं भाषा विज्ञान	06	100
16	VIII	MJC- 16	शोध प्रविधि	04	100
			Sub Total	80	1600

MINOR COURSES (MIC)

Minor Courses to be offered by the departments of Humanities.

क्रम संख्या	सेमेस्टर	Types of Course	Name of Course	Credit	Marks
1.	I	MIC-1	संस्कृत –व्याकरण	03	100
2.	II	MIC-2	संस्कृत पद्यकाव्य	03	100
3.	III	MIC-3	संस्कृत गद्य–साहित्य	03	100
4.	IV	MIC-4	संस्कृत व्याकरण एव सम्भाषण कौशल	03	100
5.	V	MIC-5	संस्कृत नाटक	03	100
6.	V	MIC-6	संस्कृत काव्यशास्त्र	03	100
7.	VI	MIC-7	संस्कृत नीतिकाव्य	03	100
8.	VI	MIC-8	संस्कृत साहित्य का इतिहास	03	100

9.	VII	MIC-9	श्रीमद्भगवद्गीता	04	100
10.	VIII	MIC-10	भारतीय दर्शन	04	100
			Sub Total	32	1000

Multi Disciplinary COURSES (MDC)

Multi Disciplinary Courses to be offered by the departments of Humanities, Commerce & Sciences.

Sr. No.	Semester	Types of course	Name of Course	Credit	Marks
01	I	MDC-1	भारतीय संस्कृति	03	100
02	II	MDC-2	संस्कृत काव्य	03	100
03	III	MDC-3	संस्कृत वाङ्मय में वैज्ञानिक परम्परा	03	100
			Sub Total	09	300

AEC -MIL Sanskrit

Sr. No.	Semester	Types of course	Name of Course	Credit	Marks
1	I	AEC-MIL Sanskrit	MIL Sanskrit	02	100

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Bachelor of Arts (Honours) Sanskrit under FYUGP
UNIVERSITY OF BIHAR, PATNA
SEMESTER-III (Pattern-70+30=100)
MJC-III: संस्कृत साहित्य का इतिहास–वैदिक एवं लौकिक
Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	संहिताओं का सामान्य परिचय एवं प्रतिपाद्य विषय।	8 Hours
2	ब्राह्मण, आरण्यक, उपनिषद् एवं वेदांगो का सामान्य परिचय।	8 Hours
3	रामायण, महाभारत एवं पुराणों का सामान्य परिचय।	8 Hours
4	महाकाव्य, रूपक एवं गीतिकाव्य का सामान्य परिचय।	8 Hours
5	गद्यकाव्य, कथा साहित्य एवं चम्पूकाव्य का सामान्य परिचय।	8 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं।(इस खण्ड में टिप्पणी प्रष्टव्य है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं। – 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित पुस्तकें:–

1. वैदिक साहित्य और संस्कृति, आचार्य बलदेव उपाध्याय(शारदामन्दिर वाराणसी)।
2. वैदिक साहित्य का इतिहास, पारसनाथ द्विवेदी, चौखम्बा, वाराणसी।
3. वैदिक साहित्य का समालोचनात्मक इतिहास, प्रो० रामविलास चौधरी, MLBD ।
4. संस्कृत साहित्य का इतिहास , प्रो० उमाशंकर शर्मा ऋषि (चौखम्बा प्रकाशन, वाराणसी)।
5. वैदिक साहित्य का इतिहास, गजानन्द मुसलगांवकर, चौखम्बा प्रकाशन, वाराणसी।
6. A History of Indian Literature, Vol. II, Translated by Subhdra Jha, MLBD.
7. संस्कृत साहित्य का समीक्षात्मक इतिहास, डॉ0 कपिलदेव द्विवेदी, चौखम्बा, वाराणसी।
8. संस्कृत साहित्य का आलोचनात्मक इतिहास, रामजी उपाध्याय, चौखम्बा विद्याभवन, वाराणसी।
9. संस्कृतसाहित्येतिहासः , आचार्य रामचन्द्र मिश्र, चौखम्बा, वाराणसी।
10. संस्कृत साहित्य का इतिहास, प्रीतिप्रभा गोयल, राजस्थानी ग्रन्थागार, जोधपुर।

अधिगमः–

पाठ्यक्रम सम्पन्न होने पर छात्र संस्कृत साहित्य (वैदिक एवं लौकिक) के प्रमुख पक्षों का सामान्य परिचय प्राप्त कर इसकी महत्ता को समझ सकेंगे। वेदों में निहित ज्ञान–विज्ञान अध्यात्म एवं दर्शन के रहस्यों से अवगत हो सकेंगे। वेदांगों का परिचय प्राप्त कर सकेंगे। वेदों के व्याख्यानरूप ब्राह्मणों, आरण्यकों एवं उपनिषदों का परिचय प्राप्त कर सकेंगे।

आदि काव्य रामायण की कथा से चरित्र निर्माण कर सकेंगे। महाभारत के परिचय से दुर्गुणों से निर्वृति एवं सद्गुणों की ओर प्रवृत्त हो सकेंगे। संस्कृत के महाकाव्य, नाट्य साहित्य, गीतिकाव्य आदि विधाओं के उद्भव एवं विकास परम्परा से परिचित होंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-III (Pattern-70+30=100)
MJC-IV: वेद एवम् उपनिषद्।
Theory :4 Credits+ Tutorial: 1 Credit = 5 Credits

Unit	Prescribed Course	Number of Lectures
1	ऋग्वेदीय सूक्त–अग्नि(1.1) हिरण्यगर्भ(10.121)	10Hours
2	यजुर्वेदीय सूक्त– प्रजापति सूक्त (32.1–5), अथर्ववेदीय सूक्त–पृथिवी सूक्त (12.1–10)	10Hours
3	वैदिक व्याकरण–देवशब्दरूप, गम् धातु, लट् लकार।	10Hours
4	कठोपनिषद् (प्रथम अध्याय प्रथम वल्ली)	10Hours
	Tutorial	10Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड--क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में वैदिक मंत्रों एवं कठोपनिषद् के छः मंत्रों में से किन्हीं चार मंत्रों की व्याख्या उपेक्षित हैं।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित पुस्तकें:–

1. ऋग्भाष्य संग्रह, डॉ0 देवराज चानना, मुंशीलाल मनोहर दास, दिल्ली।
2. प्राथमिक वेद संग्रह, पं0 रघुवर मिठ्ठूलाला शास्त्री और पं0 चद्रिका प्रसाद शुक्ल।
3. न्यू वैदिक सलेक्शन, डॉ0 जमुना पाठक एवं उमेश प्रसाद सिंह, चौखम्बा प्रकाशन, वाराणसी।
4. वैदिक व्याकरण, उमेश चन्द्र पाण्डेय चौखम्बा विद्याभवन, वाराणसी।
5. वैदिक व्याकरण, डॉ0 वीणा शर्मा , चौखम्बा ओरयण्टालिया, वाराणसी।
6. कठोपनिषद्, डॉ0 सुरेन्द्र देव शास्त्री, चौखम्बा विद्याभवन, वाराणसी।
7. कठोपनिषद्, गीताप्रेस, गोरखपुर।
8. कठोपनिषद् , डॉ0 विजेन्द्र कुमार शर्मा, साहित्य भण्डार, मेरठ।

अधिगमः–

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वैदिक संहिता के सूक्तों के अध्ययन से वैदिक भाषागत वैशिष्ट्य एवं उनमें सन्निहित ज्ञान, विज्ञान आध्यात्मिक तत्त्वों का परिचय प्राप्त करेंगे। वैदिक मन्त्रों के संहिता–पद–प्रभृति अष्टविध पाठों का ज्ञान प्राप्त करेंगे।

कठोपनिषद् के अध्ययन से आध्यात्मिक रूचि उत्पन्न होगी एवं वे मूल्यपरक जीवन की महत्ता से परिचित हो सकेंगे। गूढ़ दार्शनिक रहस्य एवं आत्मज्ञान से छात्र सुविज्ञ होंगे। आत्मा एवं परमात्मा का ब्रह्मविषयक ज्ञान से हमारे छात्र भलीभाँति परिचित होंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-IV (Pattern-70+30=100)
MJC-V: संस्कृत काव्यशास्त्र।
Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	साहित्यदर्पण (प्रथम परिच्छेद)।	08 Hours
2	साहित्यदर्पण (द्वितीय परिच्छेद)।	08Hours
3	साहित्यदर्पण (षष्ठ परिच्छेद)।	08 Hours
4	साहित्यदर्पण (दशम परिच्छेद)। शब्दालंकार–अनुप्रास, यमक, श्लेष। अर्थालंकार– उपमा, रूपक, उत्प्रेक्षा, अर्थान्तरन्यास, विभावना, काव्यलिंग, अतिशयोक्ति, विशेषोक्ति, सन्देह, भ्रान्तिमान्।	08 Hours
5	छन्द– आर्या अनुष्टुप, इन्द्रवज्रा, उपेन्द्रवज्रा, वंशस्थ, मन्दाक्रान्ता, मालिनी, शिखरिणी, हरिणी, स्रग्धरा, उपजाति, द्रुतविलम्बित, वसन्ततिलका भुजङ्गप्रयात शर्दूलविक्रीडित, स्रग्विणी।	08 Hours
	Tutorial	10Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में प्रदत्त छः छंदों में से किन्हीं चार की सोदाहरण व्याख्या उपेक्षित हैं।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।
कुल – 70 अंक

अनुशंसित पुस्तकें:–

1. साहित्यदर्पण– शालिग्राम शास्त्री, MLBD.
2. साहित्यदर्पण– अभिराजराजेन्द्र मिश्र।
3. साहित्यदर्पण–डॉ0 सत्यव्रत सिंह, चौखम्बा विद्याभवन, वाराणसी।
4. साहित्यदर्पण– शेषराज रेग्मी, चौखम्बा, वाराणसी।
5. छन्दोमंजरी– परमेश्वरदीन पाण्डेय, चौखम्बा, कृष्णदास अकादमी, वाराणसी।
6. वृत्तरत्नाकर– धरानन्द शास्त्री, MLBD.
7. छन्दोमंजरी– पं0 श्री जगन्नाथ शास्त्री तैलङ्ग, भारतीय विद्याप्रकाशन, दिल्ली।

अधिगमः–

साहित्यदर्पण के प्रथम परिच्छेद के अध्ययन से काव्य के लक्षण, प्रयोजन एवं हेतुओं का परिचय प्राप्त कर सकेंगे। शब्द की त्रिविध शक्तियों का ज्ञान प्राप्त कर सकेंगे। काव्य के विभिन्न प्रकारों का ज्ञान प्राप्त कर सकेंगे। काव्य में सन्निहित शब्दगत एवं अर्थगत अलंकारों का चमत्कार जान सकेंगे। छन्दों के वैविध्यपूर्ण ज्ञान से संस्कृत रचना कौशल एवं सौन्दर्य से परिचित होंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-IV (Pattern-70+30=100)
MJC-VI: संस्कृत नाटक।
Theory :4 Credits+ Tutorial: 1Credit=5 Credits

Unit	Prescribed Course	Number of Lectures
1	स्वप्नवासवदत्तम् (भास) (1–4 अंक)	10 Hours
2	स्वप्नवासवदत्तम् (भास) (5–6 अंक)	10 Hours
3	अभिज्ञानशाकुन्तलम् (कालिदास) (1–4 अंक)	10 Hours
4	अभिज्ञानशाकुन्तलम् (कालिदास) (5–7 अंक)	10 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में दोनों नाटकों से कुल छः श्लोकों में से किन्हीं चार श्लोकों की व्याख्या अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित पुस्तकें:–

1. स्वप्नवासवदत्तम्– जयपाल विद्यालंकार, MLBD
2. अभिज्ञानशाकुन्तलम्– बाबूराम त्रिपाठी, प्रकाशन, आगरा।
3. अभिज्ञानशाकुनतलम्– कपिलदेव द्विवेदी, चौखम्बा, वाराणसी।
4. स्वप्नवासवदत्तम् – डॉ0 मोहन मिश्र, जनरल बुक एजेंसी, पटना।
5. अभिज्ञानशाकुनतलम्– सुबोधचन्द्रपन्त, MLBD .

6. अभिज्ञानशाकुनतलम् – नारायणराम आचार्य, निर्णय सागर प्रेस।
7. अभिज्ञानशाकुनतलम् – C.R Devadhar, MLBD, Delhi.
8. अभिज्ञानशाकुनतलम् – M.R Kale, MLBD, Delhi.

अधिगमः–

नाटकों के अध्ययन के पश्चात् छात्र–छात्राओं के जीवन में सर्वांगीण, सामाजिक, रीति–रिवाजों एवं सांस्कृतिक महत्त्वों के मनोभाव विकसित होंगे।

तत्कालीन समाज का प्रतिबिम्बन उक्त नाटकों में अवलोकन करने के उपरान्त स्वकीय जीवन में आनन्द का अनुभव करेंगे। सत्यं–शिवं–सुन्दरम् की भावना उनके व्यक्तित्व में इन नाटकों के अध्ययन से विकसित हो सकेंगे।युवक–युवतियोंके अंदर सौन्दर्यपरक ऐसी शास्त्र दृष्टि विकसित होगी, जो अर्वाचीन समय में समाज को गढ़ने एवं पढ़ने में सहायक सिद्ध होंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-III (Pattern-70+30=100)
MJC-VII: व्याकरण–4।
Theory :4 Credits+ Tutorial: 1 Credit=5 Credits

Unit	Prescribed Course	Number of Lectures
1	कारक प्रकरण (सिद्धान्तकौमुदी) कर्ता, कर्म।	10Hours
2	कारक प्रकरण (सिद्धान्तकौमुदी) करण, सम्प्रदान, अपादान।	10Hours
3	कारक प्रकरण (सिद्धान्तकौमुदी) संबंध, अधिकरण।	10Hours
4	वाच्य– कर्तृ, कर्म और भाव (विशेषतः द्विकर्मक धातुओं के वाच्यपरिवर्तन)।	10Hours
	Tutorial	10Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी / क्वीज / प्रस्तुति / दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में छः सूत्रों में से किन्हीं चार सूत्रों की सोदाहरण व्याख्या अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (इस खंड में कारकों एवं वाच्य परिवर्त्तन से सम्बद्ध पाँच प्रश्नों में से किन्हीं तीन प्रश्नों के विश्लेषणात्मक / तुलनात्मक / वाच्यपरिवर्तनात्मक उत्तर अपेक्षित हैं।)– 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित पुस्तकें:–

1. कारक–प्रकरण– धरानन्द शास्त्री।
2. कारक दर्शन–डॉ0 कलानाथ झा।
3. रचनानुवाद कौमुदी– डॉ0 कपिलदेव द्विवेदी, विश्वविद्यालय प्रकाशन, वाराणसी।
4. बृहद अनुवाद चन्द्रिका– धरानन्द शास्त्री, MLBD .
5- Higher Sanskrit Grammar- M.R Kale.
6. Higher Sanskrit Grammar- M.R Kale का हिन्दी अनुवाद, रामनारायण लाल बेनीप्रसाद, इलाहाबाद।
7. संस्कृत स्वयं शिक्षक (भाग–I,II) – श्रीपाद दामोदर सातवलेकर, राजपाल एण्ड सन्स, नई दिल्ली।

अधिगम:–

संस्कृत रचना में परमोपयोगी कारक एवं विभक्ति का ज्ञान प्राप्त करेंगे। रचना कौशल की प्रवृत्ति बढ़ेगी। वाक्य कर्तृ कर्म एवं भाववाच्य द्वारा परिवर्तित करने की क्षमता का विकास होगा।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

SEMESTER-V (Pattern-70+30=100)

MJC-VIII: भारतीय दर्शन।

Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	भारतीय दर्शन का सामान्य परिचय (आस्तिक, नास्तिकदर्शन)	10 Hours
2	तर्कसंग्रह–उद्देश्य प्रकरण (पदार्थ, द्रव्य, गुण, कर्म निरूपण)	10 Hours
3	तर्क संग्रह– लक्षण निरूपण (पृथिवी, जल, तेज, वायु, आकाश, काल दिक्, आत्मा, मन निरूपण)।	10 Hours
4	तर्क संग्रह–प्रत्यक्ष, अनुमान, उपमान, शब्द परिच्छेद।	10 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक

(II) संगोष्ठी / क्वीज / प्रस्तुति / दत्त कार्य– 10 अंक

(III) उपस्थिति एवं अनुशासन– 05 अंक

कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।

खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। इस खण्ड में प्रदत्त छः दार्शनिक उपविषयों (पदों) में से किन्हीं चार पर टिप्पणी लेखन अपेक्षित है।) – 4x5=20 अंक।

खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

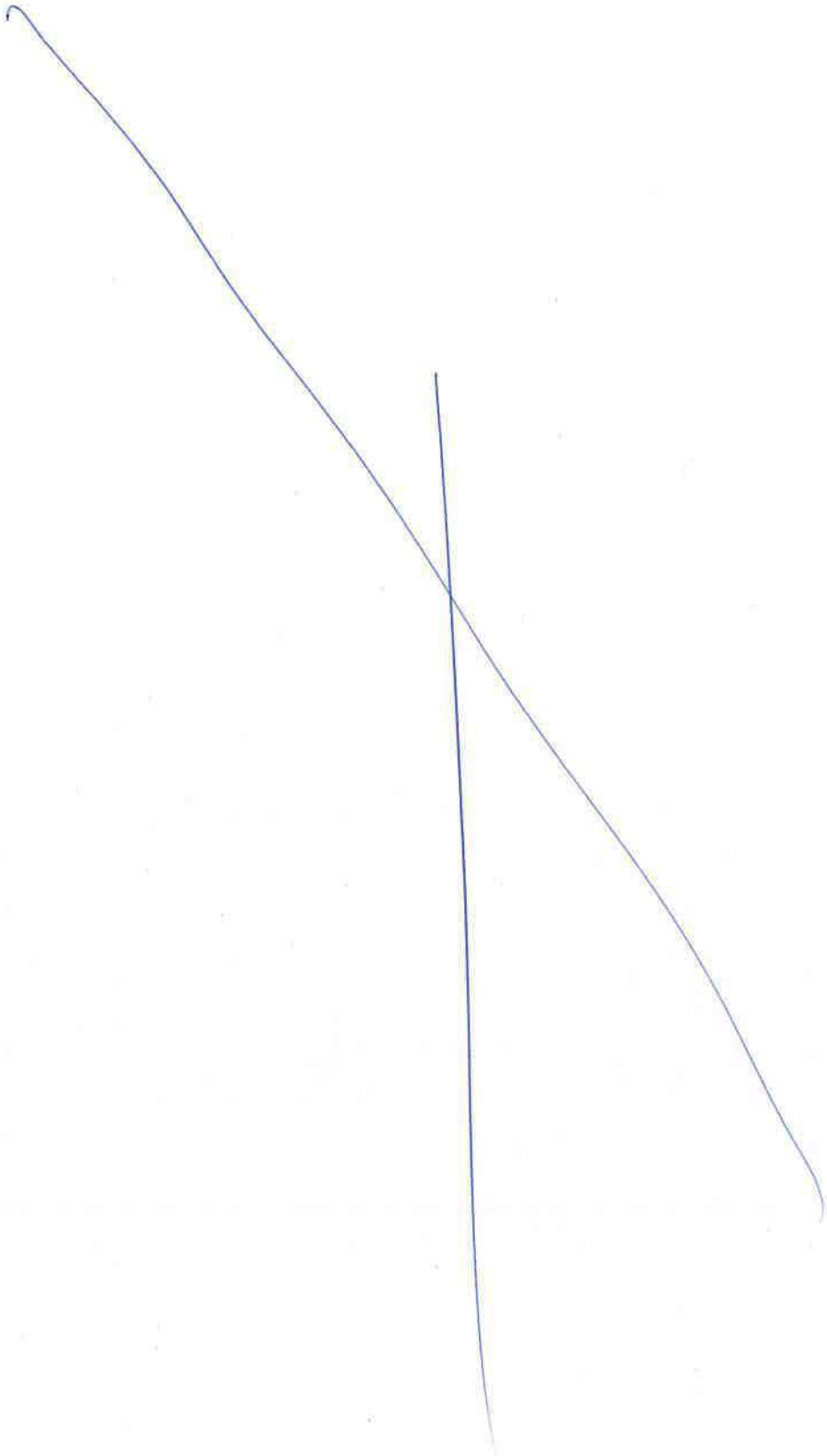
कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. भारतीय दर्शन– हरेन्द्र प्रसाद सिन्हा, MLBD .
2. तर्क संग्रह– गोविन्दाचार्य, चौखम्भा सूरभारती प्रकाशन, वाराणसी।
3. तर्क संग्रह–दयानन्द भार्गव, MLBD .
4. बृहद् अनुवाद चन्द्रिका– धरानन्द शास्त्री, MLBD .
5- Higher Sanskrit Grammar- M.R Kale.
6. भारतीय दर्शन– डॉ0 पारसनाथ द्विवेदी, चोखम्बा प्रकाशन, वाराणसी।

अधिगमः–

भारतीय दर्शन से सुपरिचित होकर छात्र–छात्राएँ दार्शनिक बोध प्राप्त करने में समर्थ हो सकेंगे। जीवन एवं मरण, जीवात्मा एवं परमात्मा, ब्रह्म एवं माया, जीव–जगत् इत्यादि विषयों का तात्त्विक एवं पारमार्थिक बोध प्राप्त कर सकेंगे।



Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

SEMESTER-V (Pattern-70+30=100)

MJC-IX: श्रीमद्भगवद्गीता।

Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	भगवद्गीता का सामान्य अध्ययन।	10 Hours
2	द्वितीय अध्याय (श्लोक 1–36)	10 Hours
3	द्वितीय अध्याय (श्लोक 37–72)	10 Hours
4	चतुर्थ अध्याय (सम्पूर्ण)	10 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक

(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक

(III) उपस्थिति एवं अनुशासन– 05 अंक

कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।

खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। इस खण्ड में निर्धारित अंशों से छः श्लोकों में से में से किन्हीं चार श्लोकों की व्याख्या अपेक्षित है।) – 4x5=20 अंक।

खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. श्रीमद्भगवद्गीता–मधुसूदनसरस्वती कृत गूढ़ार्थदीपिका संस्कृत टीका तथा प्रतिभाभाष्य (हिन्दी) सहित।
2. भगवद्गीता – गीताप्रेस, गोरखपुर। .
3. भगवद्गीता – मदन मोहन अग्रवाल, चौखम्बा, वाराणसी।
4. गीता रहस्य– बालगंगाधर तिलक।
5. गीता प्रवचन– आचार्य विनोबा।
6. गीता (साधक संजीवनी)– रामसुखदास, गीता प्रेस, गोरखपुर।
7. गीता तत्त्व चिन्तामणि– जयदयाल गोयंका, गीताप्रेस, गोरखपु।
8. गीता का अनुशीलन– श्रीलप्रभुपाद, ISCON.
9. सनातनशास्त्रम्– सीताराम ओंकारनाथ दास।

अधिगमः–

गीता के कर्म, भक्ति एवं ज्ञान विषयक अध्यायों के अध्ययन से छात्र/छात्राओं के व्यक्तित्त्व का सर्वांगिण विकास हो सकेगा। इनके जीवन में असमंजस एवं अन्तद्वन्द्व की स्थितियों से निदान प्राप्त कर सकेंगे। उनके जीवन में सम्पूर्ण मानवीय सद्गुणों एवं सत्प्रवृत्तियों का अभ्युदय हो सकेगा। नर से नारायण की यात्रा अर्थात मनुष्य देह में दैवीय सद्गुणों का विकास सभंव हो सकेगा। गीता अध्ययन का परम फल यह होगा कि भारत के छात्र/छात्राएं भारतबोध, आत्मज्ञान, परमात्म सिद्धि, परमार्थ बोध आदि समस्त सत्प्रवृत्तियों से सम्पृक्त हो सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-VI (Pattern-70+30=100)
MJC-X: संस्कृत गद्य साहित्य।
Theory :3 Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
I	शुकनासोपदेश।	15 Hours
2	शिवराजविजयः (प्रथम निःश्वास)	15 Hours
	Tutorial	10 Hours
	Total	40 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खंड में दोनों पाठ्यांशों के छः गद्यांशों में से में से किन्हीं चार गद्यांशों का हिन्दी अनुवाद अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. कादम्बरी (शुकनासोपदेश)– डॉ0 रमाकान्त झा, डॉ0 हरिहर झा, चौखम्बा प्रकाशन, वाराणसी।
2. कादम्बरी (शुकनासोपदेश)– डॉ0 प्रह्लाद कुमार, मेहरचन्द लक्ष्मनदास, दिल्ली।
3. शिवराज विजय– विजय शंकर चौबे, MLBP.
4. शुकनासोपदेश – मोहनदेव पन्त MLBD.
5. शिवराजविजय– डॉ0 यशवन्त कुमार जोशी, आयुर्वेद संस्कृत, हिन्दी पुस्तक भण्डार, जयपुर।
6. शिवराजविजयः– डॉ0 रमाशंकर मिश्र, चौखम्बा सुरभारती प्रकाशन, वाराणसी।

अधिगमः–

शुकनासोपदेश के अध्ययन के पश्चात् युवावस्था के आने वाले दुष्प्रभावों से बचने में सफल होंगे। विशेषकर पद–प्रतिष्ठा प्राप्त कर अंहकार जन्य दुष्प्रवृत्तियों का शमन कर सकेगा। लक्ष्मीमद अर्थात् धन से उत्पन्न होने वाले अभिमान जन्य दुर्गुणों के प्रति छात्र/छात्राएँ विशेष रूप से सतर्क रहेंगे। साथ ही युवावस्था में उत्पन्न होने वाली सहज कुप्रवृत्तियों से भी वे बच सकेंगे। छात्र/छात्राएँ संस्कृत साहित्य के उपन्यास विधा से परिचित हो सकेंगे। विदेशी आक्रान्ताओं के दुराचार एवं कदाचार की एक झलक प्राप्त कर सकेंगे एवं राष्ट्रवाद की भावना से युक्त हो सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-VI (Pattern-70+30=100)
MJC-XI: संस्कृत व्याकरण (लघुसिद्धान्तकौमुदी)।
Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	कृत्य प्रक्रिया (तव्यत्, अनीयर, केलिमर, यत्, ण्यत्)।	10 Hours
2	कृत् प्रत्यय–घञ् ल्युट्, क्त, क्तवतु, शतृ, शानच् ट, खश, अच्, अप्।	10 Hours
3	तद्धित प्रत्यय– मत्वर्थीय।	10 Hours
4	स्त्री प्रत्यय– टाप्, ङीप् और ङीष्	10 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में छः सूत्रों में से किन्हीं चार सूत्रों की सोदाहरण व्याख्या अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (इस खंड में सम्बद्ध व्याकरणिक पक्षों से सम्बद्ध विश्लेषणात्मक/तुलनात्मक/प्रयोगात्मक वैशिष्ट से संबद्ध प्रश्न होंगे। पाँच प्रश्नों में से तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. लघुसिद्धान्तकौमुदी– महेश सिंह कुशवाहा, चौखम्बा।
2. लघुसिद्धान्तकौमुदी – धरानन्दशास्त्री, मोतिलाल बनारसी दास।
3. लघुसिद्धान्तकौमुदी – प्रो0 अर्कनाथ चौधरी, जगदीश संस्कृतपुस्तकालय, जयपुर।,
4. लघुसिद्धान्तकौमुदी – प्रो0 रामविलास चौधरी, मोतिलाल बनारसी दास।
5. वैयाकरण सिद्धान्तकौमुदीस्त्रीप्रत्ययप्रकरणम्– प्रो0 वैद्यनाथ मिश्र, पोद्दार पब्लिकेशन, वाराणसी।

अधिगमः–

21.09.2023

21.9.23

21.9.23

छात्र/छात्राएँ संस्कृत वाक्य रचनोपयोगी कृत्य प्रत्ययों के प्रयोग से अवगत हो सकेंगे। प्रकृति भेद से प्रत्यय भेद को रूपों एवं प्रयोगों को समक्ष सकेंगे। स्त्री प्रत्यय–प्रातिक पदिक से स्त्रीत्व अर्थ में विविध स्त्री प्रत्ययों की प्रयोग दशा समझ सकेंगे।

संस्कृत के प्रत्ययों के ज्ञान द्वारा शब्द–निर्माण का समार्थ्य विकसित होगा।

संस्कृत भाषा की वैज्ञानिकता से परिचय होगा।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

SEMESTER-VI (Pattern-70+30=100)

MJC-XII: संस्कृत रचना।

Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	संस्कृत पत्र लेखन, आवेदन पत्र लेखन।	10 Hours
2	संस्कृत निबन्ध लेखन।	10 Hours
3	संस्कृत से हिन्दी अनुवाद।	10 Hours
4	हिन्दी से संस्कृत अनुवाद।	10 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक

(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक

(III) उपस्थिति एवं अनुशासन– 05 अंक

कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।

खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में व्यक्तिगत पत्र/आवेदन पत्र/ सूचना/ निमंत्रण पत्र से संबद्ध छः प्रश्नों में से किन्हीं चार के उत्तर अपेक्षित है।) – 4x5=20 अंक।

खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (इस खंड में प्रदत्त तीन हिन्दी अनुच्छेदों एवं दो संस्कृत अनुच्छेदों में से यथायोग तीन अनुच्छेदों का संस्कृत/हिन्दी में अनुवाद अपेक्षित है।– 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. रचनानुवाद कौमुदी–डॉ0 कपिलदेव द्विवेदी, विश्वविद्यालय प्रकाशन, वाराणसी।
2. बृहद अनुवाद चन्द्रिका–चक्रधर नौटियाल, MLBD.
3. निबन्धशतकम्– डॉ0 कपिलदेव द्विवेदी, विश्वविद्यालय प्रकाशन, वाराणसी।
4. संस्कृतनिबन्धसौरभम्– प्रो0 बैद्यनाथ मिश्र, पोद्दार पब्लिकेशन, वाराणसी।
5. निबन्ध कुसुमाञ्जलि– डॉ0 जयमन्त मिश्र, दिल्ली।

अधिगमः–

इससे संस्कृत छात्र/छात्राओं में संस्कृत में पत्र लेखन एवं निबन्ध लेखन की क्षमता का विकास होगा। अनुवाद के द्वारा छात्रों में संस्कृत रचना में प्रवेश करने की क्षमता का संवर्धन होगा।



Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-VII (Pattern-70+30=100)
MJC-XIII: संस्कृत महाकाव्य।
Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	कुमारसम्भवम् (पञ्चम सर्ग)	20 Hours
2	शिशुपालवधम् (प्रथम सर्ग)	20 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में दोनों महाकाव्यों से कुल छः श्लोकों में से किन्हीं चार श्लोकों की व्याख्या अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।
कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. कुमारसम्भवम्– नेमिचन्द शास्त्री, MLBD.
2. शिशुपालवधम्– श्री रामजीलाल शर्मा, चौखम्बा सुरभारती प्रकाशन, वाराणसी।
3. कुमारसम्भवम्– जगदीशलालाशास्त्री , मोतिलाल बुक्स पब्लिकेशंस एण्ड डिष्ट्रीब्युटर्स , वाराणसी।
4. कुमारसम्भवम्– प्रो0 रेवाप्रसाद द्विवेदी, सम्पूर्णानन्द विश्वविद्यालय, वाराणसी।
5. शिशुपालवध– जनार्धनशास्त्री पाण्डेय, मोतिलाल बुक्स, पब्लिकेशंस एण्ड डिस्ट्रीब्युटर्स, वाराणसी।
6. शिशुपालवधम् (प्रथम सर्ग), आशुबोधिनी संस्कृत हिन्दी व्याख्योपंतम्– पं0 सत्यनारायण शास्त्री, चौखम्बा भारती आकदमी, पटना।

अधिगमः–

इन महाकाव्यों के अध्ययन के पश्चात् का लिदास एवं माघ के काव्य सौन्दर्य का रसपान कर सकेंगे। काव्यानन्द के साथ तपः प्रवृति और पौराणिक आख्यानों से भी परिचित हो सकेंगे। छात्र/छात्राओं के अन्दर जीवन में तपस्या का महत्त्व, अतिथि सत्कार, स्पष्टवादिता एवं लक्ष्य संसिद्धि का सोपान प्रशस्त होगा।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-VII (Pattern-70+30=100)
MJC-XIV: संस्कृत कथा साहित्य।
Theory :4 Credits+ Tutorial: 1 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	पञ्चतन्त्रम् (अपरीक्षितकारक–आरंभिक तीन कथाएँ)	20 Hours
2	हितोपदेश (आरंभिक तीन कथाएँ)	20 Hours
	Tutorial	10 Hours
	Total	50 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खंड में दोनों पाठ्यांशों के छः गद्यांशों में से में से किन्हीं चार गद्यांशों का हिन्दी अनुवाद अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न (प्रदत्त 5 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

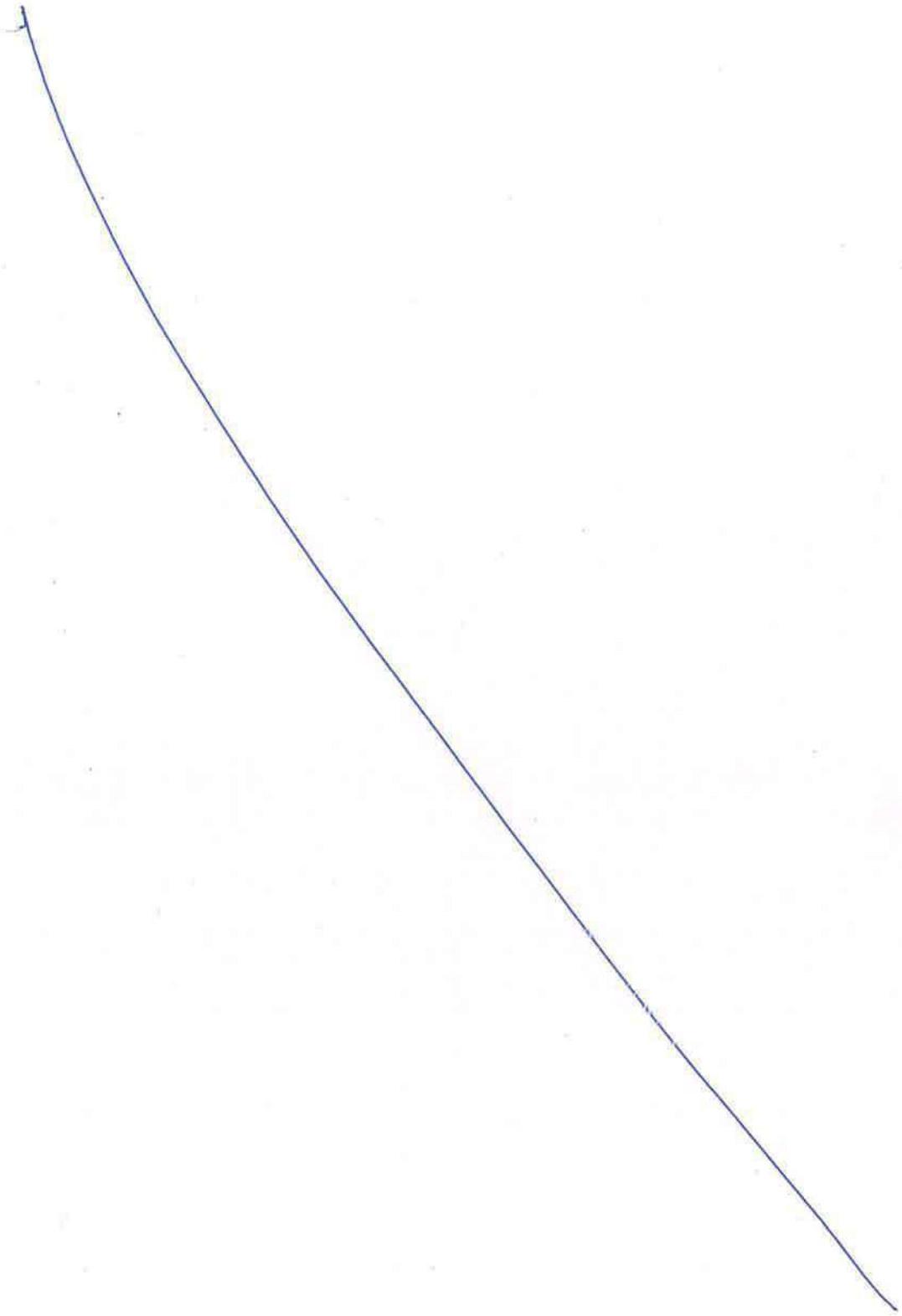
कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. पञ्चतन्त्रम् – श्री गुरूप्रसाद शास्त्री, भार्गव पुस्तकालय, गायघाट, काशी।
2. पञ्चतन्त्रम् – श्यामचरण पाण्डेय, मोतीलाल बुक्स पब्लिशर्स एण्ड डिस्ट्रीब्युटर्स, पटना।
3. हितोपदेश– मोतीलाल बनारसीदास इन्टरनेशनल।
4. अपरीक्षितकारकम्– प्रो० मोहन मिश्र, जेनरल बुक एजेन्सी, पटना।
5. हितोपदेश प्रो० बालशास्त्री, चौखम्बा सुरभारती प्रकाशन, वाराणसी।

अधिगमः–

इन कथाओं के अध्ययन से कर्तव्याकर्तव्य का बोध होगा तथा उचित निर्णय लेने की क्षमता का विकास होगा। गुरूपदेश के महत्त्व को समझ सकेंगे। संस्कृत की मनोहर कथा परम्परा से अवगत होंगे।



Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-VII (Pattern-70+30=100)
MJC-XV: व्याकरण–7 एवं भाषाविज्ञान।
Theory :5 Credits+ Tutorial: 6 Credit =5 Credits

Unit	Prescribed Course	Number of Lectures
1	समास–केवलसमास, अव्ययीभाव और तत्पुरूष	15 Hours
2	समास–बहुव्रीहि और द्वन्द्व	15 Hours
3	भाषा की परिभाषा भाषोत्पत्ति सिद्धान्त भाषा और बोली में अन्तर।	10 Hours
4	भारतीय आर्यभाषा का क्रमिक विकास, लौकिक एवं वैदिक संस्कृत भाषा में अन्तर।	10 Hours
	Tutorial	10 Hours
	Total	60 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खण्ड में छः सूत्रों में से किन्हीं चार सूत्रों की सोदाहरण व्याख्या अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घोत्तरीय प्रश्न।
पाँच प्रश्नों में से तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. भाषा विज्ञान की भूमिका – आचार्य देवेन्द्रनाथ शर्मा, राधाकृष्ण प्रकाशन, नई दिल्ली।
2. संस्कृत का भाषाशास्त्रीय अध्ययन – डॉ0 भोलाशंकर व्यास, भारतीय ज्ञानपीठ प्रकाशन, वाराणसी।
3. सामान्य भाषाविज्ञान– डॉ0 बाबूराम सक्सेना, हिन्दी साहित्य सम्मेलन, प्रयाग।
4. भाषा विज्ञान– डॉ0 भोलानाथ तिवारी, किताब महल, इलाहाबाद।
5. Elements of Science of Language- Tara Porewala.

अधिगमः–

छात्र सामासिक प्रक्रिया के क्रम को समझ सकेंगे और संस्कृत रचना में उनका उपयोग कर सकेंगे। सामासिक प्रक्रिया जानने के बाद प्रौढ़ समस्यापदों को समझने में सुगमता आएगी।

भाषा की विविध परिभाषाओं से अवगत होंगे और भाषा की उत्पत्ति के संबंध में विभिन्न मतों का परिचय प्राप्त कर बोली आदि का सम्यक् ज्ञान प्राप्त कर सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-III (Pattern-70+30=100)
MIC-III: संस्कृत गद्य साहित्य।
Theory :2 Credits+ Tutorial: 1 Credit =3 Credits

Unit	Prescribed Course	Number of Lectures
1	हितोपदेश (अपरीक्षितकारक)	10 Hours
2	पंचतंत्र (मित्रलाभ)	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 10 वस्तुनिष्ठ प्रश्न। –
10x2=20 अंक।
खण्ड–ख 2. दोनों इकाइयों से तीन–तीन गद्यांश होंगे जिनमें से चार गद्यांशों का हिन्दी अनुवाद उत्तरणीय। –
5x4=20 अंक।
खण्ड–ग 3. दोनों इकाइयों में से क्रमशः दो और तीन प्रश्न, जिनमें से कोई तीन प्रश्न उत्तरणीय। –
10x3=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

6. पंचतन्त्रम् – श्री गुरूप्रसाद शास्त्री, भार्गव पुस्तकालय, गायघाट, काशी।
7. पंचतन्त्रम् – श्यामचरण पाण्डेय, मोतीलाल बुक्स पब्लिशर्स एण्ड डिस्ट्रीब्युटर्स, पटना।

8. हितोपदेश– मोतीलाल बनारसीदास इन्टरनेशनल।
9. अपरिक्षितकारकम्– प्रो0 मोहन मिश्र, जेनरल बुक एजेन्सी, पटना।
10. हितोपदेश– प्रो0 बालशास्त्री, चौखम्बा सुरभारती प्रकाशन, वाराणसी।

अधिगमः–

छात्रों का चारित्रिक निर्माण होगा। उनका नैतिक विकास होगा। विचारों में परिपक्वता आएगी। संस्कृत भाषा लेखन एवं सम्भाषण में निपुण हो सकेंगे। संस्कृत की मनोहर कथा परम्परा से अवगत होंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP
UNIVERSITY OF BIHAR, PATNA
SEMESTER-IV (Pattern-70+30=100)
MIC-IV: संस्कृत व्याकरण एवं सम्भाषण कौशल।
Theory :2 Credits+ Tutorial: 1 Credit=3 Credits

Unit	Prescribed Course	Number of Lectures
1	संस्कृत–संभाषण कौशल के क्रमिक सोपान।	10 Hours
2	विभक्त्यर्थ प्रकरण।	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 10 वस्तुनिष्ठ प्रश्न होंगे। – 10x2=20 अंक।
खण्ड–ख 2. संस्कृत संभाषणोपयोगी प्रकरणों (गंगा, जल, गंगातट, शरद् शालय तुमुल) तथा विभक्ति सूत्रों की व्याख्या। दोनों इकाइयों से तीन–तीन प्रश्न होंगे जिनमें से किन्हीं चार प्रश्नों के उत्तर देने होंगे। – 5x4=20 अंक।
खण्ड–ग 3. दोनों इकाइयों से कुल पाँच प्रश्न किए जायेंगे, जिनमें से किन्हीं तीन के उत्तर देने होंगे। – 10x3=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. प्रारम्भिक रचनानुवादकौमुदी– डॉ0 कपिलदेव द्विवेदी, विश्वविद्यालय प्रकाशन, वाराणसी।
2. संस्कृत स्वयं शिक्षक– दामोदर सातवलेकर, राजपाल एण्ड संस, दिल्ली।
3. रचनानुवाकौमुदी– डॉ0 कपिलदेव द्विवेदी, विश्वविद्यालय प्रकाशन, वाराणसी।
4. व्यवहार साहस्त्री– संस्कृत भारती, दिल्ली।

5. संभाषण सोपानम्– संस्कृत भारती, दिल्ली।
6. लघुसिद्धान्त कौमुदी– डॉ0 महेश सिंह कुशवाहा, चौखम्बा प्रकाशन, वाराणसी।

अधिगमः–

संस्कृत में बोलने की क्षमता विकसित होगी। वाक्यों की संरचना एवं सिद्धता का बोध हो सकेगा। छात्र/छात्राएँ लेखन एवं सम्भाषण कला में प्रवीण हो सकेंगे। व्याकरण बोध से संस्कृत भाषागत समझ विकसित होगी एवं अभिव्यक्ति में सुगमता होगी।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-V (Pattern-70+30=100)
MIC-V: संस्कृत नाटक।
Theory :2 Credits+ Tutorial: 1Credit= 3Credits

Unit	Prescribed Course	Number of Lectures
1	स्वप्नवासवदत्तम् (प्रथम अंक)।	10 Hours
2	मालविकाग्निमित्रम् (प्रथम अंक)।	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल--30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 05–05 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।
खण्ड–ख 2. लघु उत्तरीय प्रश्न कुल 04। – 5x4=20 अंक।
दोनों इकाइयों से तीन–तीन श्लोक होंगे, जिनमें से किन्हीं चार श्लोकों की व्याख्या करेंगे।
खण्ड–ग 3. दीर्घ उत्तरीय प्रश्न कुल 03। – 10x3=30 अंक।
दोनों इकाइयों से कुल 05 प्रश्न होंगे, जिनमें से किन्हीं तीन प्रश्नों के उत्तर देने होंगे।
कुल – 70 अंक

अनुशंसित पुस्तकें:–

1. स्वप्नवासवदत्तम्– आचार्य शेषराज शर्मा 'रेग्मि'।
2. स्वप्नवासवदत्तम्– प्रो0 मोहन मिश्र, जेनरल बुक एजेन्सी, पटना।
3. स्वप्नवासवदत्तम्– जयपाल विद्यालंकार, MLBD.
4. मालविकाग्निमित्र– प्रिंसिपल मोहनदेव पन्त, MLBD.
5. मालविकाग्निमित्रम्– पं0 श्री रामचन्द्र मिश्र, चौखम्बा संस्कृत सीरीज ऑफिस, वाराणसी।

अधिगम:–

संस्कृत के नाट्य साहित्य को पढ़ने की अभिरूचि जागृत होगी। अभिनय कौशल एवं सम्भाषण कला का विकास होगा। अभिनय कौशल एवं सम्भाषण कला का विकास होगा। भास एवं कालिदास के नाट्य साहित्य

को पढ़कर भारतीय संस्कृति एवं कला से परिचित हो सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-VI (Pattern-70+30=100)
MIC-VI: संस्कृत काव्यशास्त्र।
Theory :2 Credits+ Tutorial: 1 Credit =3 Credits

Unit	Prescribed Course	Number of Lectures
1	काव्यप्रयोजन, काव्यलक्षण, काव्यहेतु, काव्यभेद एवं शब्द शक्तियाँ।	10 Hours
2	अलंकारः– शब्दालंकार–अनुप्रास, यमक, श्लेष। अर्थालंकार– उपमा, रूपक, उत्पेक्षा, अर्थान्तरन्यास (काव्यदीपिका के अनुसार)।	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी / क्वीज / प्रस्तुति / दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 05–05 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।
खण्ड–ख 2. लघु उत्तरीय प्रश्न कुल 04। – 5x4=20 अंक।
दोनों इकाइयों से तीन–तीन प्रश्न होंगे, जिनमें से किन्हीं चार की व्याख्या करेंगे।
खण्ड–ग 3. दीर्घ उत्तरीय प्रश्न कुल 03। – 10x3=30 अंक।
दोनों इकाइयों से कुल 05 प्रश्न होंगे, जिनमें से किन्हीं तीन प्रश्नों के उत्तर देने होंगे।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

7. काव्यदीपिका– परमेश्वरनन्द शर्मा, MLBD.
8. काव्यात्ममीमांसा– डॉ0 जयमन्त मिश्र, चौखम्बा, वाराणसी।

अधिगमः–

21/9/23 21-09-2023 21-9-23 21-9-23 Rekha R. 21.9.23 Manoj 21.9.23 21/9/2023 21/9/23

काव्यशास्त्रीय विवेचन कर काव्य की उत्कृष्टता को समझ सकेंगे। काव्य की महत्ता को समझ सकेंगे। काव्य रचना के शास्त्रीय पक्षों का ज्ञान होगा।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER- VII (Pattern-70+30=100)
MIC-VII: संस्कृत नीतिकाव्य।
Theory :2 Credits+ Tutorial: 1 Credit =3 Credits

Unit	Prescribed Course	Number of Lectures
1	(क) नीतिशतक (आरम्भिक 10 पद्य) (ख) श्रृंगारशतक (आरम्भिक 10 पद्य)।	10 Hours
2	चाणक्य नीति (प्रारम्भिक 20 पद्य)	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 05–05 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।
खण्ड–ख 2. लघु उत्तरीय प्रश्न कुल 04। – 5x4=20 अंक।
दोनों इकाइयों से तीन–तीन श्लोक (कुल छः) होंगे, जिनमें से किन्हीं चार श्लोकों की व्याख्या करेंगे।
खण्ड–ग 3. दीर्घ उत्तरीय प्रश्न कुल 03। – 10x3=30 अंक।
दोनों इकाइयों से कुल 05 प्रश्न होंगे, जिनमें से किन्हीं तीन प्रश्नों के उत्तर देने होंगे।
कुल – 70 अंक

अनुशंसित ग्रन्थः–

1. चाणक्यनीतिदर्पणः – डॉ0 गुञ्जेश्वरी चौधरी, चौखम्बा सुरभारती प्रकाशन, वाराणसी।
2. चाणक्यनीतिदर्पणः – पं0 रूपनारायण पाण्डेय कविरत्न, तेजकुमार बुकडिपो लिमिटेड, लखनऊ।
3. भर्तृहरि शतकत्रयम्– डॉ0 ददन उपाध्याय, चौखम्बा, सुरभारती प्रकाशन, वाराणसी।

4. भर्तृहरिशतकत्रय– डॉ0 चमनलाल गौतम, चौखम्बा प्रकाशन, वाराणसी।
5. SATAKATRAYAM- D.S.R KRISHNAMURTI, J.P Publishing House.

अधिगमः–

छात्रों–छात्राओं का नैतिक बोध विकसित होगा। चारित्रिक विकास होगा। संस्कृत सरल संरचना से परिचित होंगे। व्यक्तित्व के निर्माण में इन नीतियों का व्यापक प्रभाव पड़ेगा।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER- VIII (Pattern-70+30=100)
MIC-VIII: संस्कृत साहित्य का इतिहास।
Theory :2 Credits+ Tutorial: 1 Credit =3 Credits

Unit	Prescribed Course	Number of Lectures
1	वेदों का सामान्य परिचय एवं प्रतिपाद्य विषय।	10 Hours
2	रामायण और महाभारत का सामान्य परियच।	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी / क्वीज / प्रस्तुति / दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 05–05 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।
खण्ड–ख 2. लघु उत्तरीय प्रश्न कुल 04। – 5x4=20 अंक।
दोनों इकाइयों से कुल छः टिप्पणियॉ होंगे,
जिनमें से किन्हीं चार पर टिप्पणी करनी होगी।
खण्ड–ग 3. दीर्घ उत्तरीय प्रश्न कुल 03। – 10x3=30 अंक।
दोनों इकाइयों से कुल 05 प्रश्न होंगे, जिनमें से किन्हीं
तीन प्रश्नों के उत्तर देने होंगे।
कुल – 70 अंक

अनुशंसित पुस्तकें:–

11. वैदिक साहित्य और संस्कृति, आचार्य बलदेव उपाध्याय(शारदामन्दिर वाराणसी)।
12. वैदिक साहित्य का इतिहास, पारसनाथ द्विवेदी, चौखम्बा, वाराणसी।
13. वैदिक साहित्य का समालोचनात्मक इतिहास, प्रो० रामविलास चौधरी, MLBD ।
14. संस्कृत साहित्य का इतिहास , प्रो० उमाशंकर शर्मा ऋषि (चौखम्बा प्रकाशन, वाराणसी)।
15. वैदिक साहित्य का इतिहास, गजानन्द मुसलगांवकर, चौखम्बा।
16. A History of Indian Literature, Vol. II, Translated by Subhdra Jha, MLBD.
17. संस्कृत साहित्य का समीक्षात्मक इतिहास, डॉ0 कपिलदेव द्विवेदी, चौखम्बा, वाराणसी।
18. संस्कृत साहित्य का आलोचनात्मक इतिहास, रामजी उपाध्याय, चौखम्बा विद्याभवन, वाराणसी।
19. संस्कृतसाहित्येतिहासः, आचार्य रामचन्द्र मिश्र, चौखम्बा, वाराणसी।
20. संस्कृत साहित्य का इतिहास, प्रीतिप्रभा गोयल, राजस्थानी ग्रन्थागार, जोधपुर।

अधिगमः–

पाठ्यक्रम सम्पन्न होने पर छात्र संस्कृत साहित्य के वैदिक एवं लौकिक के प्रमुख पक्षों का सामान्य परिचय प्राप्त कर इसकी महत्ता को समझ सकेंगे। वेदों में निहित ज्ञान–विज्ञान अध्यात्म एवं दर्शन के रहस्यों से

अवगत हो सकेंगे। वैदिक साहित्य के वेदांगों का परिचय प्राप्त कर सकेंगे। वेदों के व्याख्यानरूप ब्राह्मणों, आरण्यकों एवं उपनिषदों का परिचय प्राप्त कर सकेंगे।

आदि काव्य रामायण की कथा से चरित्र निर्माण कर सकेंगे। महाभारत के परिचय से दुर्गुणों से निर्वृति एवं सद्गुणों की ओर प्रवृत्त हो सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER- IX (Pattern-70+30=100)
MIC-IX: श्रीमद्भगवतगीता।
Theory :3 Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	श्रीमद्भगवदगीता का सामान्य परिचय, गीता में प्रतिपादित कर्म, ज्ञान एवं भक्ति मार्ग का सामान्य परिचय।	15 Hours
2	अध्याय–15 (पुरूषोत्तम योग)।	15 Hours
	Tutorial	10 Hours
	Total	40 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक

कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 05–05 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।
खण्ड–ख 2. लघु उत्तरीय प्रश्न कुल 04। – 5x4=20 अंक।
दोनों इकाइयों से कुल छः टिप्पणियाँ होंगे,
जिनमें से किन्हीं चार पर टिप्पणी करनी होगी।
खण्ड ग 3. दीर्घ उत्तरीय प्रश्न कुल 03। – 10x3=30 अंक।
दोनों इकाइयों से कुल 05 प्रश्न होंगे, जिनमें से किन्हीं
तीन प्रश्नों के उत्तर देने होंगे।

कुल – 70 अंक

अनुशंसित ग्रन्थः–

10. श्रीमद्भगवद्गीता–मधुसूदनसरस्वती कृत गूढ़ार्थदीपिका संस्कृत टीका तथा प्रतिभाभाष्य (हिन्दी) सहित।
11. भगवद्गीता – गीताप्रेस, गोरखपुर।.
12. भगवद्गीता – मदन मोहन अग्रवाल, चौखम्बा, वाराणसी।
13. गीता रहस्य– बालगंगाधर तिलक।
14. गीता प्रवचन– आचार्य विनोबा।
15. गीता (साधक संजीवनी)– रामसुखदास, गीता प्रेस, गोरखपुर।
16. गीता तत्त्व चिन्तामणि– जयदयाल गोयंका, गीताप्रेस, गोरखपु।
17. गीता का अनुशीलन– श्रीलप्रभुपाद, ISCON.
18. सनातनशास्त्रम्– सीताराम ओंकारनाथ दास।

अधिगम:–

गीता के कर्म, भक्ति एवं ज्ञान विषयक अध्यायों के अध्ययन से छात्र/छात्राओं के व्यक्तित्त्व का सर्वाङ्गीण विकास हो सकेगा। इनके जीवन में असमंजस एवं अन्तर्द्वन्द्व की स्थितियों से निदान प्राप्त कर सकेंगे। उनके जीवन में सम्पूर्ण मानवीय सद्गुणों एवं सत्प्रवृत्तियों का अभ्युदय हो सकेगा। नर से नारायण की यात्रा अर्थात् मनुष्य देह में दैवीय सद्गुणों का विकास सभंव हो सकेगा। गीता अध्ययन का परम फल यह होगा कि भारत के छात्र/छात्राएं भारतबोध, आत्मज्ञान, परमात्म सिद्धि, परमार्थ बोध आदि समस्त सत्प्रवृत्तियों से सम्पृक्त हो सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

SEMESTER- X (Pattern-70+30=100)

MIC-X: भारतीय दर्शन।

Theory :3 Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	भारतीय दर्शन की उत्पत्ति, उद्देश्य और वर्गीकरण।	10 Hours
2	भारतीय आस्तिक दर्शन का सामान्य अध्ययन।	10 Hours
3	भारतीय नास्तिक दर्शन का सामान्य परिचय।	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक

(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक

(III) उपस्थिति एवं अनुशासन– 05 अंक

कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क । तीनों इकाइयों से कुल 10 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।

खण्ड–ख । लघु उत्तरीय प्रश्न कुल 04। – 5x4–20 अंक।
तीनों इकाइयों से कुल छः प्रश्न होंगे,
जिनमें से किन्हीं चार के उत्तर देने होंगे।

खण्ड–ग । दीर्घ उत्तरीय प्रश्न कुल 03। – 10x3=30 अंक।
तीनों इकाइयों से कुल 05 प्रश्न होंगे, जिनमें से किन्हीं
तीन प्रश्नों के उत्तर देने होंगे।

कुल – 70 अंक

अनुशंसित ग्रन्थ:–

1. भारतीय दर्शन – आचार्य बलदेव उपाध्याय।
2. भारतीय दर्शन – हरेन्द्र प्रसाद सिन्हा।
3. भारतीय दर्शन – चन्द्रधर शर्मा।
4. भारतीय दर्शन – पारसनाथ द्विवेदी, विश्वविद्यालय प्रकाशन वाराणसी।
5. भारतीय दर्शन – डॉ0 उमा शंकर शर्मा ऋषि।
6. History of Indian Philosophy- S.N Das Gupta.

अधिगमः–

भारतीय दार्शनिक चिन्तन परम्परा से परिचित हो सकेंगे। भारतीय दर्शन से सुपरिचित होकर छात्र–छात्राएँ एक दार्शनिक बोध प्राप्त करने में समर्थ हो सकेंगे। जीवन एवं मरण, जीवात्मा एवं परमात्मा, ब्रह्म एवं माया, जीव–जगत् इत्यादि विषयों का तात्त्विक एवं पारमार्थिक बोध प्राप्त कर सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

SEMESTER-III (Pattern-70+30=100)

MDC -I: भारतीय संस्कृति।

Theory : 2Credit+ Tutorial: 1 Credit =3 Credits

Unit	Prescribed Course	Number of Lectures
1	वर्णाश्रम व्यवस्था, षोडशसंस्कार, पुरूषार्थचतुष्टय।	10 Hours
2	प्राचीनशिक्षण, प्रणाली (गुरूकुलीयशिक्षापरम्परा, ब्रह्मचारी के आवश्यक कर्त्तव्य, गुरुशिष्य परम्परा)	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक

कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 10 वस्तुनिष्ठ प्रश्न।
10x2=20 अंक।

खण्ड–ख 2. दोनों इकाइयों से तीन–तीन प्रश्न होंगे जिनमें से चार प्रश्नों के उत्तर अपेक्षित है। (इस खंड में टिप्पणी प्रष्टव्य है।)
5x4=20 अंक।

खण्ड–ग 3. दोनों इकाइयों से पाँच प्रश्नों में से तीन प्रश्नों के उत्तर अपेक्षित है। – 10x3=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थ :–

1. भारतीयसंस्कृति – डॉ0 प्रीति प्रभा गोयल, परिमल प्रकाशन, नई दिल्ली।
2. भारतीयसंस्कृति के मूलतत्त्व– डॉ0 सुखबीर सिंह, साहित्य भण्डार, मेरठ।
3. भारतीयसंस्कृति एवं कला – वाचस्पति गैरोला, उत्तरप्रदेश, हिन्दी संस्थान, लखनऊ।
4. हिन्दू संस्कार – राजबलि पाण्डेय।
5. प्राचीन भारत का सामाजिक इतिहास – डॉ0 जयशंकर मिश्र।
6. धर्मशास्त्र का इतिहास – भारतरत्न, पी0वी0 काणे।

अधिगमः–

(1) भारतीयसंस्कृति के मूलतत्त्व को समझ सकेंगे।
(2) संस्कारों के वैज्ञानिक महत्त्व से अवगत होंगे।
(3) शिक्षण प्रणाली के बोध के साथ चारित्रिक विकास होगा।
(4) गुरू शिष्य संबंध की पवित्रता समझ सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

SEMESTER-III (Pattern-70+30=100)

MDC -II: संस्कृत काव्य।

Theory : 3Credit+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	वाल्मीकीय रामायण (सुन्दर काण्ड, सर्ग सात)	10 Hours
2	श्रीमद्भगवद्गीता (अध्याय–12)	10 Hours
3	मेघदूत (कालिदास) –पूर्वमेघ, आरम्भिक 10 पद्य।	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी / क्वीज / प्रस्तुति / दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक

पुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. तीनों इकाइयों से 10 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।

खण्ड–ख 2. तीनों इकाइयों से तीन–तीन प्रश्न होंगे जिनमें से चार प्रश्नों के उत्तर अपेक्षित है। (इस खंड में श्लोक व्याख्या प्रष्टव्य है।) – 5x4=20 अंक।

खण्ड–ग 3. तीनों इकाइयों से पॉच प्रश्नों में से तीन प्रश्नों के उत्तर अपेक्षित है। – 10x3=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थ :–

1. रामायण – गीताप्रेस, गोरखपुर।
2. भगवद्गीता– गीताप्रेस गोरखपुर।
3. मेघदूतम् – मोतीलाल बुक पब्लिशर्स एण्ड डिष्ट्रीब्युटर्स, पटना।

अधिगमः–

छात्र/छात्राओं के व्यक्तित्व के विकास में सहायक सिद्ध होंगे। आदि कवि वाल्मीकि, वेदव्यास एवं कालिदास की विलक्षण काव्य प्रतिभा से परिचित हो सकेंगे।

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

SEMESTER-III (Pattern-70+30=100)

MDC -III: संस्कृत वाङ.मय में वैज्ञानिक परम्परा।

Scientific Traditious in Sanskrit.

Theory : 2Credit+ Tutorial: 1 Credit =3 Credits

Unit	Prescribed Course	Number of Lectures
1	संस्कृत वाङ्.मय में रसायन विज्ञान, भौतिक विज्ञान	10Hours
2	संस्कृत वाङ्.मय में गणित एवं खगोल विज्ञान	10Hours
	Tutorial	10Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक

(II) संगोष्ठी / क्वीज / प्रस्तुति / दत्त कार्य– 10 अंक

(III) उपस्थिति एवं अनुशासन– 05 अंक

कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दोनों इकाइयों से 10 वस्तुनिष्ठ प्रश्न। – 10x2=20 अंक।

खण्ड–ख 2. दोनों इकाइयों से तीन–तीन प्रश्न होंगे जिनमें से चार प्रश्नों के उत्तर अपेक्षित है। (इस खंड में टिप्पणी प्रष्टव्य है।) – 5x4=20 अंक।

खण्ड–ग 3 दोनों इकाइयों से पॉच प्रश्नों में से तीन प्रश्नों के उत्तर अपेक्षित है – 10x3=30 अंक।

कुल – 70 अंक

अनुशंसित ग्रन्थ :–

1. संस्कृत साहित्य में ज्ञान–विज्ञान– डॉ0 शशि शर्मा, इस्टर्न बुक लिंकर्स।
2. विज्ञान सारथिः – डॉ0 विजया रानी, परिमल पब्लिकेशन्स, दिल्ली।

अधिगमः–

(1) संस्कृत वाङ्.मय की गौरवशाली परम्परा से परिचय प्राप्त होगा।

(2) विज्ञान के क्षेत्र में कुछ नया करने की प्रवृत्ति बढ़ेगी।

(3) भारतीय स्वाभिमान का उदय होगा।

21.09.2023

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
SEMESTER-III (Pattern-70+30=100)
MIL -III: Sanskrit
Theory : 1Credit+ Tutorial: 1 Credit =2 Credits

Unit	Prescribed Course	Number of Lectures
1	पंचतन्त्र– क्षपणक कथा, सिंहकारक मूर्ख ब्राह्मण कथा।	10 Hours
2	नीतिशतक– आरम्भिक (20 पद्य)	10 Hours
	Tutorial	10 Hours
	Total	30 Hours

CIA-30 अंक

(I) एक मध्य सत्रीय परीक्षा– 15 अंक
(II) संगोष्ठी/क्वीज/प्रस्तुति/दत्त कार्य– 10 अंक
(III) उपस्थिति एवं अनुशासन– 05 अंक
कुल–30 अंक

प्रश्न पत्र प्रारूप (ESE)

खण्ड–क 1. दस वस्तुनिष्ठ प्रश्न । – 10x2=20 अंक।
खण्ड–ख 2. लघूत्तरीय प्रश्न प्रदत्त 6 प्रश्नों में से चार प्रश्नों के उत्तर अपेक्षित हैं। (इस खंड में दोनों पाठ्यांशों के छः गद्यांशों में से में से किन्हीं चार गद्यांशों का हिन्दी अनुवाद अपेक्षित है।) – 4x5=20 अंक।
खण्ड–ग 3. दीर्घात्तरीय प्रश्न (प्रदत्त 6 प्रश्नों में से किन्हीं तीन के उत्तर अपेक्षित हैं।) – 03x10=30 अंक।

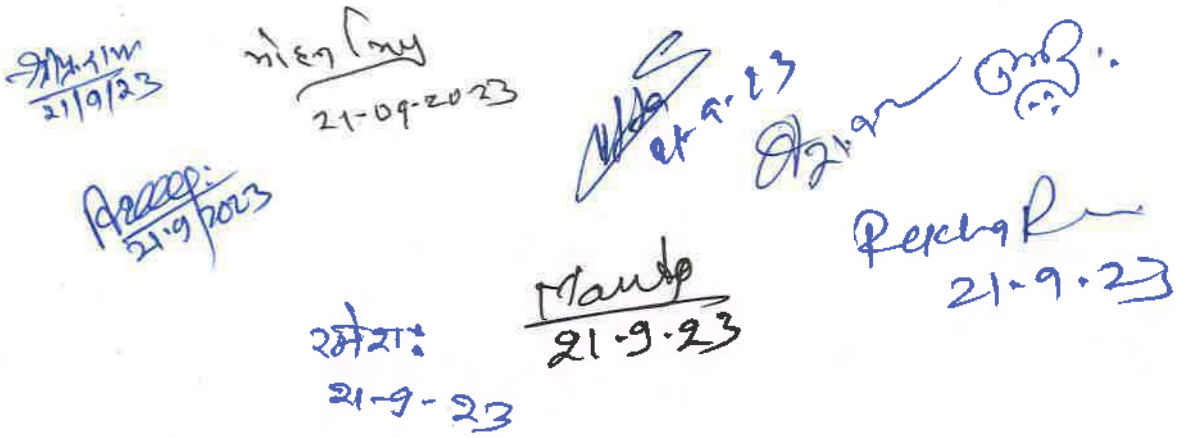
कुल 70 अंक

अनुशंसित ग्रन्थ :–

1. नीतिशतक् – तारिणीश झा, रामनारायण लाल बेनीमाधव प्रकाशन, इलाहाबाद।
2. पंचतन्त्रम् – श्री गुरूप्रसाद शास्त्री, भार्गव पुस्तकालय, गायघाट, काशी।
3. पंचतन्त्रम् – श्यामचरण पाण्डेय, मोतीलाल बुक्स पब्लिशर्स एण्ड डिस्ट्रीब्युटर्स, पटना।
4. हितोपदेश– मोतीलाल बनारसीदास इन्टरनेशनल।
5. अपरिक्षितकारकम्– प्रो0 मोहन मिश्र, जेनरल बुक एजेन्सी, पटना।
6. हितोपदेश– प्रो0 बालशास्त्री, चौखम्बा सुरभारती प्रकाशन, वाराणसी।

अधिगमः–

छात्र–छात्राओं का नैतिक बोध विकसित होगा। चारित्रिक विकास होगा। संस्कृत सरल संरचना से परिचित होंगे। व्यक्तित्व के निर्माण में इन नीतियों का व्यापक प्रभाव पड़ेगा।



List of Skill Enhancement Courses (SEC)

SL. No.	Course Title	Distribution of the course		Total Credits	Total Marks=100
		Lecture	Tutorial		End- Term Appraisal: 70 Marks Internal Assessment: 30 Marks
1	संस्कृत–संभाषणम्	20	10	3	
2	ज्योतिष एवं कर्मकाण्ड	20	10	3	
3	वैदिक–गणित	20	10	3	
4	संस्कृत–साहित्य में पर्यावरणीय चेतना	20	10	3	
5	Arts of Balanced Living	20	10	3	
6	संस्कृत आयुर्विज्ञान	20	10	3	

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

(Pattern-70+30=100)

SEC-I: संस्कृत–संभाषणम्

Theory :3Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	व्यावहारिक शब्दावली का ज्ञान, पद एवं वाक्य संरचना	10 Hours
2	वाच्य–परिवर्तन, प्रयोग तथा अनुवाद	10 Hours
3	परिचय, लघुपरिचर्चा, लघुलेख, वार्तालाप, संदेश–रचना	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

Course Outcome:- Speak fluently in Sanskrit.

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

(Pattern-70+30=100)

SEC-II: ज्योतिष एवं कर्मकाण्ड

Theory :3Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	कर्मकाण्ड–सामान्य परिचय, शुद्दिकरण, आसन–ग्रहण, इष्ट–आह्वाहन, संध्योपासना, गृहपवेश।	10 Hours
2	कर्मकाण्ड–उपनयन, पाणिग्रहण, श्राद्धकर्म, मूर्तिस्थापना, हवनादियाज्ञिक–कर्मकाण्ड।	10 Hours
3	ज्योतिष– सामान्य परिचय, नवग्रहों का परिचय, नक्षत्रों का परिचय।	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

Course Outcome:-

- Have general knowledge about Jyotish and Karmkand.
- Perform some Hindu rituals
- Know about Graha and nakshtras.

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

(Pattern-70+30=100)

SEC-III: वैदिक–गणित

Theory :3Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	संस्कृत में गणित का इतिहास वैदिक साहित्य और लौकिक साहित्य में गणितीय प्रयोग	10 Hours
2	गणित के प्रमुख आचार्यों का परिचय– वररूचि, आर्यभट्ट प्रथम, वराहमिहिर, श्रीधर, आर्यभट्ट, द्वितीय, श्रीपति, भास्काराचार्य, गणेश देवज्ञ, कमलाकार, रामानुजन।	10 Hours
3	आर्यभटीयम् (01–05), लीलावती (01–10)	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

Course Outcome:-

- Get introduction of Vedic mathematics.
- Know about the great scholars of Vedic mathematics.
- Familiar with introctory book related Vedic mathematics.

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA

(Pattern-70+30=100)

SEC- IV: संस्कृत–साहित्य में पर्यावरणीय चेतना

Theory :3Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	Environmental Background of Sanskrit Literature	10 Hours
2	Environment Awareness in Vedic Literature	10 Hours
3	Environment Awareness in Classical Sanskrit Literature	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

Course Outcome:-

- The basic concept of Indian Science of Environment.
- Modern Environmental Perspective and importance of Sanskrit Literature.
- Silent features of Environmental awareness as reflected in Vedic and Classical sanskrit.

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
(Pattern-70+30=100)
SEC- V: Arts of Balanced Living
Theory :3Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	Self-presentation: श्रवण, मनन, निदिध्यासन (बृहदारण्योपनिषद् 2.4.5)	10 Hours
2	Concentration: अभ्यास–योगसूत्र 1.2, वैराग्य– योगसूत्र 1.12–16	10 Hours
3	Refinement of behavior: ज्ञानयोग, कर्मयोग, ध्यानयोग और भक्तियोग।	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

Course Outcome:-

- Work on human resource management for giving better results.
- Method of Self-presentation Hearing .
- Restriction of fluctuations by practice and passionlessness as well as method of improving behavior.

Bachelor of Arts (Honours) Sanskrit under FYUGP

UNIVERSITY OF BIHAR, PATNA
(Pattern-70+30=100)
SEC- VI: संस्कृत आयुर्विज्ञान
Theory :3Credits+ Tutorial: 1 Credit =4 Credits

Unit	Prescribed Course	Number of Lectures
1	आयुर्वेद का सामान्य परिचय, इतिहास, प्रमुख आचार्य–धन्वन्तरी, पुनर्वसु, चरक, सुश्रुत, वाग्भट्ट, सारंगधर, भावमिश्र।	10 Hours
2	चरक संहिता– सूत्रस्थान (शरीर की प्रकृति और छः ऋतुएँ)	10 Hours
3	तैतिरीयोपनिषद्– (भृगुवल्ली)	10 Hours
	Tutorial	10 Hours
	Total	40 Hours

Course Outcome:-

- आयुर्वेद की प्रमुख प्रवृत्तियों का परिचय हो सकेगा।
- स्वास्थ्य संरक्षण के सूत्रों से परिचित होंगे।
- वैदिक स्वास्थ्य चिन्तन से अवगत हो सकेंगे।

अनशंसित ग्रन्थ

- आयुर्वेद का प्रमाणिक इतिहास, डॉ० भगवतराम गुप्त, चौखम्बा प्रकाशन, वाराणसी।
- चरक संहिता (सूत्र स्थान) चौखम्बा प्रकाशन, वाराणसी।
- तैत्तिरीयोपनिषद्, गीताप्रेस, गोरखपुर।

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:-**Regarding submission of proposed course uniform syllabus of Philosophy for 3rd to 8th Semester of 4 - Year undergraduate Course, (CBCS)**

Reference:- Letter No.-BSU (UGC) -02/2023- 1457/ GS(I) dated 14.09.2023

Sir,

In compliance with your letter no. BSU(UGC)- 02/2023-1457/ GS(I) dated-14.09.2023 followed by above mentioned letter no, we are submitting the proposed course syllabus of **Philosophy** for 3rd to 8th semester of the 4 - year under graduate course (CBCS) as per UGC regulations.

Yours sincerely

1 **Prof. Kismat Kumar Singh**
Professor , P.G. Dept. of philosophy
V K S University, Ara
Email.-kismatsingh71@gmail.com
Mobile -7979780900

2 **Dr. Rajesh Kumar Singh**
Professor,
Patna University, Patna
Email.-rks2951961@gmail.com
Mobile -9430060611

3 **Prof. Neelima Kumari**
Professor
(Additional)
T M B University, Bhagalpur
Email.-neelimakumari64@gmail.com
Mobile -9955709751

4 **Dr. Ram Nath Prasad,**
Professor & Head
(Additional)
J P University, Chapra
Email.-ramnathprasad494@gmail.com
Mobile -9835646538, 8540058693

5 **Dr. Ranjan Kumar Singh**
Associate Professor
(Additional)
M G R University, Munger
Email.-dr.ranjan.r@gmail.com
Mobile -7004508218

Revised Proposed Course Uniform Syllabus of Philosophy for 3rd to 8th Semester of 02 Year Under graduate Course (CCBCS) Submitted to Raj Bhavan, Patna

6 **Rajiv Kumar**
Associate Professor
(Additional)
L N M University, Darbhanga
Email.-rajivkumarrajiv1827@gmail.com
Mobile -7979901827

21/9/23

7 **Dr. Gyananjai Dwivedi**
Professor & Head
(Additional)
B N M University, Madhepura
Email.-dr.gdwivedi@gmail.com
Mobile -7903426295

21/9/23

8 **Dr. Avay Kumar Singh**
Professor
(Additional)
B RA Bihar University, Muzaffarpur
Email.-avaykumarsingh1972@gmail.com
Mobile -9801058060

21/9/23

9 **Prof. Shailesh Kr Singh**
Professor
Patliputra University, Patna
Email.-drsingh_7@hotmail.com
Mobile -9431821099

21/09/2023

SEMESTER III

MJC-03 : Indian Philosophy

Division of Marks:

ESE - 70
CIA - 30
Total - 100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15) – 15 marks
B. Seminar/Quiz/Presentation/Assignment – 10 marks
C. Attendence and Conduct – 05 marks

Course Objectives

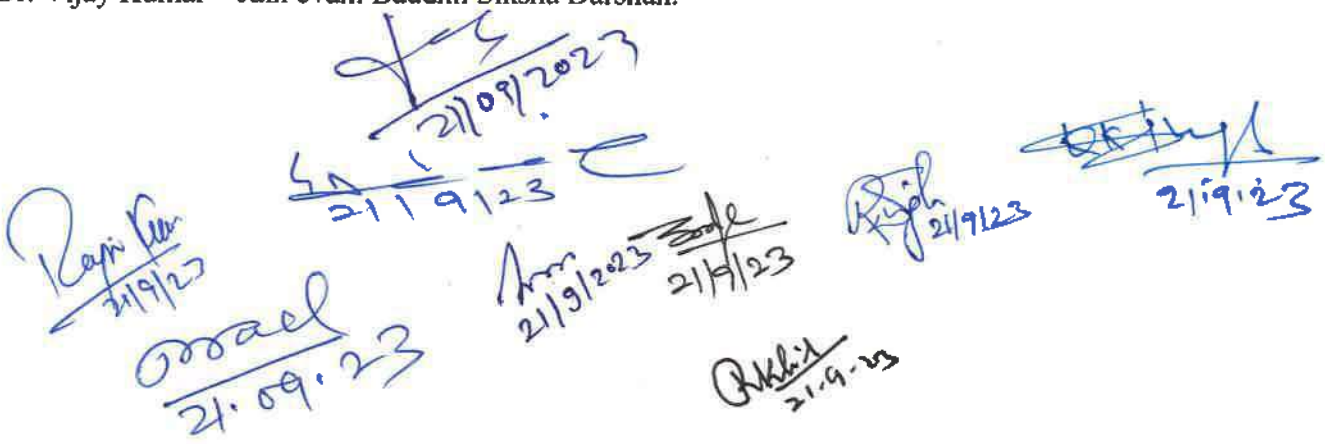
After completion of the course, the student will be able to:

CO 01: Develop a perspective on the foundations of the Indian philosophical ideas.
CO 02: Understand the concepts of the development of the Indian philosophical schools
CO 03: Develop a perspective on the different Indian methods to analyse the different problems of philosophy

MJC-03 : Indian Philosophy (Theory : 5 Credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Salient Features of Indian Philosophy. 2. Vedas and their significance. 3. Upanishads: Concept of Brahman and Atman.	10
2	1. Charvaka- Epistemology, Ontology, & Ethics. 2. Buddha Philosophy – Four Noble Truth 3. Jaina Philosophy – Jiva, Bondage & Liberation.	10
3	1. Nayay Philosophy – Nayay theory of Pramana 2. Vaisheshika Philosophy – Abhav.	10
4	1. Sankhya Philosophy – Purusha, Prakriti and Satkaryavada. 2. Yoga Philosophy – Eight fold Path, concept of god.	10
5	1. Mimamsa Philosophy: Apurva 2. Vedanta Philosophy : a) Shankar – Brahma, World, Maya. b) Ramanuj – Refutation of Shankar's Mayavada.	10
Total		**50**

Suggested Readings:

1. M. Hiriyanna, Outlines of Indian Philosophy.
2. C.D.Sharma, A Critical Survey of Indian Philosophy.
3. S. N. Das Gupta – History of Indian Philosophy- Vol. I, II & III.
4. S. Radha Krishanan – Indian Philosophy.
5. J. N. Sinha – Indian Philosophy.
6. हरेन्द्र प्रसाद सिन्हा – भारतीय दर्शन की रूपरेखा
7. बी. एन. सिंह – भारतीय दर्शन
8. चटर्जी एवं दत्ता – भारतीय दर्शन
9. बलदेव उपाध्याय – भारतीय दर्शन
10. Dr. Vijay Kumar – Jain evam Baudhh Siksha Darshan.



SEMESTER III

MJC-04: Indian Ethics

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type-
each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions-
each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions-
each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will have to:

CO 01 Develop a better orientation towards Indian ethical heritage.
CO 02 Understand Indian moral philosophy in comparison with western frame work.
CO 03 Achieve philosophical clarity in applying traditional moral wisdom in present context.

MJC-04 : Indian Ethics
(Theory: 4 credits)
Full Marks-100

Unit	Topics to be covered	No. of Hours
1	Indian Concept of Morality as distinguished from Non-morality and Immorality	03
2	**Sources of Indian Ethics :** (a) Scriptures (b) Authority (or Rishis) (c) The Voice of Conscience (d) Reason & faith	05
3	**Basic Pre-suppositions of Morality :** (a) Freedom of will (b) The Law of Karma (c) Rebirth (d) Immortality of soul (e) Avidya	06
4	**Development of Moral Theories :** (a) The Vedas (Rit & Rin) (b) The Upnishads (c) Smrities (d) The Epics (Ramayana and Mahabharat, including Gita)	06
5	**The Systems :** (a) Charvaka – Hedonism (b) Nyaya – Vaishashika (Adrishta) (c) Yoga- Yama & Niyama (d) Jain – Panch Mahavrata (e) Buddhism – Brahmvihar (f) Mimansa – Apurva	10
6	**Moral Concepts**: Purushartha, Varnasharma. Pravriti and Nivriti, Jivanmukti.	10
	TOTAL	40

Reading List :

1. Kedar Nath Tiwari : Classical Indian Ethical Thought : Motital Banarsidas.
2. I.C. Sharma : Ethical Philosophies of India.
3. S.K. Maitra : The Ethics of the Hindus.
4. Ashok Kr. Verma : Nitishastra ki Ruprekha, Motilal Banarasidas.
5. Nityananda Mishra : Nitishastra – Siddhant tatha Prayog.
6. भारतीय दर्शन में जीवन के मूल्य – प्रो० मंगला रानी

SEMESTER IV

MJC-5: Western Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will have to:

CO 01 The Study of the following course outline will help the students to develop the understanding about the Nature and dimension of thought process in the West.

CO 02 This will also help them to compare the issues of philosophy related to the East and West.

MJC-5 : Western Philosophy (Theory: 5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**Greek philosophy-** Plato-Theory of Idea, Substance Aristotle- Causation, Form and Matter.	05
2	**Modern Western Philosophy** **Rationalism** **Descartes** A. Epistemology a) Source of Knowledge. b) Method of Descartes. B. Metaphysics a) Soul b) Absolute Substance : God c) Relative Substance : Mind & Body, Dualism. **Spinoza –** A. Epistemology a) Geometrical Method B. Metaphysics a) Thought and Extension (parallelism) b) Substance **Leibnitz –** A. Epistemology a) Leibnitz's Theory of Knowledge B. Metaphysics a) Theory monads b) Pre-established Harmoney	15

3	**Locke _** A. Epistemology a) Refutation of Innate Ideas b) Source of Knowledge c) Simple and Complex Ideas. d) Primary and Secondary Qualities. B. Metaphysics a) Theory of substance. **Berkeley –** A. Epistemology a) Esse-est-percipi b) Subjective idealism B. Metaphysics a) Refutation of matter b) Self & God. **Hume –** A. Epistemology a) Impression and idea b) Scepticism B. Metaphysics a) Theory of causation.	15
4	**Kant-** 1. Reconciliation of Rationalism and Empiricism. 2. Possibility of Synthetic Judgement apriori 4. Phenomena and Noumena.	15
	TOTAL	50

Suggested Readings :

1. Y. Masih, A Critical History of Western Philosophy.
2. Chandradhar Sharma, Paschatya Darsan.
3. Russell, A History of Western Philosophy.
4. F. Thilly, History of Western Philosophy.
5. W. T. Stace, A Critical History of Greek Philosophy
6. Dr Vijay Kumar, Paschatya Darsan ke Pramukh Sidhant.
7. Dr. Badrinath Singh, Paschyat Darshan ki Ruprekha
8. F. Thilly, Paschatya Darshan ka Itihas (In Hindi translated by N.A.Khan 'Sahid'

SEMESTER IV

MJC-06 : Western Ethics

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After completion of the course, the student will be able to:

CO 01: To analyze and critically evaluate various ethical theories and their applications.

CO 02: Understand and interpret issues concerning human conduct with a moral rational approach.

CO 03: Achieve philosophical clarity in a given situation of different moral issues.

MJC-06: Western Ethics (Theory : 5 Credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Nature and scope of ethics, Normative Ethics, Meta-Ethics. 2. Psychological Analysis of voluntary Action.	10
2	1. Nature and object of Moral Judgment, Postulates of morality, Motive and Intention.	10
3	1. Standard of Morality : a) Hedonism – Bentham and Mill b) Intuitionism. c) Rigorism.	15
4	Theories of Punishment : a) Retributive theory. b) Reformative theory c) Deterrent theory	15
Total		**50**

Suggested Readings:

1. W. Lillie – An Introduction of Ethics.
2. W.Frankena, Ethics, Prentice Hall of India Private Limited, New Delhi, 1982.
3. J.S. Mill - Utilitarianism
4. Kant – Ground work of the Metaphysics of morals.
5. डॉ. बी. एन. सिंह – नीतिशास्त्र
6. डॉ. वेद प्रकाश वर्मा – नीतिशास्त्र के मूल सिद्धांत
7. डॉ. ए. के. वर्मा – नीतिशास्त्र की रूपरेखा
8. डॉ. शांति जोशी – नीतिशास्त्र
9. प्रो० ज्ञानंजय द्विवेदी – अधिनीतिशास्त्र का सरल अध्ययन

SEMESTER IV

MJC-07 : Basic Concepts of Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After completion of the course, the student will be able to:

CO 01: To analyze and critically evaluate various philosophical theories and their applications.

CO 02: Understand and interpret issues concerning human conduct with a clear and rational approach.

CO 03: Achieve philosophical clarity in a given situation of different phases of life.

MJC-07: Basic Concepts of Philosophy (Theory : 5 Credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**Introduction :** 1. Nature of philosophy and Darshan shastra 2. Relation of Philosophy with Science and Religion 3. Main branches of philosophy.	05
2	**Ontology (Western Philosophy) :** 1. Concept of Ultimate Reality 2. Relation between Ultimate Reality and World as immediate reality. 3. Theories related to the Nature of Ultimate Reality : Materialism, Idealism and Dualism. 4. Origin of World : Creationism and Evolutionism.	15
3	**Epistemology (Western Philosophy) :** 1. Source of Knowledge : Rationalism, Empiricism and Criticism	10
4	**Ontological Concepts (Indian Philosophy) :** 1. Brahma : Saguna and Nirguna 2. Aatman : Jain, Sankhya and Nyaya Darshan 3. Causation : Satkaryavada & Asatkaryavada 4. God : Nyaya and Yoga Darshan	15
5	**Epistemological Concepts (Indian Philosophy) :** 1. Prama and Aprama 2. Pramanas 3. Basic Concepts of Khyativada	05
	Total	**50**

Suggested Readings:

1. J. N. Sinha : Intoduction to Philosophy
2. राजेन्द्र प्रसाद : दर्शन शास्त्र की रूपरेखा
3. अशोक कुमार वर्मा : तत्वमीमांसा एवं ज्ञानमीमांसा
4. केदार नाथ तिवारी : तत्वमीमांसा एवं ज्ञानमीमांसा
5. ज्ञानंजय द्विवेदी : तत्वमीमांसीय और ज्ञानमीमांसीय समस्यायें (समग्र व वस्तुनिष्ठ समाधान)
6. चन्द्रधर शर्मा : भारतीय दर्शन आलोचना एवं अनुशीलन
7. हरेन्द्र प्रसाद सिन्हा : भारतीय दर्शन की रूपरेखा
8. डॉ० एन. के. देवराज : पूर्वी एवं पश्चिमी दर्शन
9. डॉ० डी० डी० बन्दष्टे : भारतीय दार्शनिक निबंध
10. डॉ० बी. एन. सिंह : पाश्चात्य दर्शन की समस्याएँ

SEMESTER V

MJC-08 : Philosophy of Religion

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will be able to:

CO 01 Learn to think philosophically about religion. They will be able to move away from irrational blind faiths and dogmas.

CO 02 Develop the attitude of religious tolerance which is conducive for a multi-religious society.

MJC-08 : Philosophy of Religion (Theory: 5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Philosophy of Religion: Its Nature and relationship to Theology. 2. Nature of Religion, Religion and Morality, Religion without God. 3. Distinguish between Dharma and Religion.	10
2	1. Religious Consciousness. 2. Foundation of Religious Belief : Reason, faith, Revelation and mystic experience.	08
3	1. Attributes of God 2. Arguments for the existence of God: Ontological, Cosmological, Teleological and Moral Argument.	07
4	1. Problem of Evil: Natural and Moral Evil. 2. Theistic Solution of the Problem of Evil.	05
5	1. Immortality of Soul: Arguments for and against 2. Rebirth and Liberation	10
6	1. Unity of Religions, Religious Tolerance 2. Conversion, Secularism	10
	TOTAL	50

Reading List :

1. प्रो० हरेन्द्र प्रसाद सिन्हा – धर्म दर्शन की रूपरेखा
2. प्रो० ज्ञान्नजय द्विवेदी – धर्मदर्शन की समस्याएँ (समग्र व – वस्तुनिष्ठ समाधान)
3. प्रो० वेद प्रकाश वर्मा – धर्म दर्शन की मूल समस्याएँ
4. प्रो० याकुब मसीह – सामान्य धर्मदर्शन एवं दार्शनिक विश्लेषण ।
5. डॉ० रमेन्द्र –धर्मदर्शन : सामान्य एवम् तुलनात्मक ।
6. John Hick,Philosophy of Religion.
7. Yaqub Masih, Introduction to Religious Philosophy.
8. Yakub Masih, Samanya Dharma Darshan evam Darshnik Vishleshan.
9. Verma, Ved Prakash, Dharma Darshan ki Mool Samasyayen
10. Dr. Ramendra, Dharma Darshan: Samanya evam Tulnatmak
11. Prof. Harendra Prasad Sinha, Dharma Darshan ki Ruparekha
12. ऋषि कान्त पाण्डेय, धर्म–दर्शन

SEMESTER V

MJC-09 : Social and Cultural Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will be able to:

CO 01 Understand the Philosophical Background of Society and Culture.
CO 02 Understand the need and direction of Socio-Cultural Reform.
CO 03 Understand the Cultural Background of Economic Growth and Progress.

MJC-09 : Social and Cultural Philosophy (Theory: 5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Nature of Social Philosophy 2. Its Relation with Sociology and Psychology.	10
2	1. Social Change a) Factors of Social Change b) Tradition and Modernity 2. Social Stratification (Varna and Class), Social Mobility	10
3	1. Concepts of Culture 2. Characteristics of Indian Culture	10
4	1. Components of Culture a) Dharma / Religion b) Philosophy c) Language & Literature, Arts & Craft (Aesthetics) & Sangeet d) Economy 2. Culture and its Relationship with Reform (Social) and Growth (Human Resource and Economic)	10
5	1. Present Branches of Indian Culture: Sanatan, Jain, Bouddh, Sikh, Islam & Christian.	10
	TOTAL	50

Suggested Readings :

1. प्रारम्भिक समाज एवं राजनीति दर्शन : डॉ० अशोक कुमार वर्मा
2. Social Philosophy : J. S. Mackenzie
3. The Social Contract : J.J. Rousseau
4. समाज दर्शन का परिचय : डॉ० शिवभानु सिंह
5. पर्यावरणीय सौन्दर्य दर्शन (तथ्य और अनुशीलन) : प्रो० किस्मत कुमार सिंह
6. संस्कृति के चार अध्याय : रामधारी सिंह 'दिनकर'
7. भारतीय संस्कृति : डॉ० देवराज
8. भारतीय संस्कृति : नरेन्द्र मोहन
9. सनातन संस्कृति का मूलज्ञान : प्रतीक प्रजापति
10. भारतीय संस्कृति, धर्म और दर्शन : डॉ० शशिशर्मा, डॉ० सुषमा देवी
11. संस्कृति दर्शन : हिम्मत सिंह
12. हमारी संस्कृति : प्रो० मंगलारानी
13. समाज और राजनीति का दार्शनिक अध्ययन – प्रो० ज्ञानंजय द्विवेदी

SEMESTER VI

MJC-10: Political Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will be able to:

CO 01 Define the nature of Political Philosophy and its relations to Political Science.

CO 02 Know rights and duties of Individuals and characteristics of institutions through Socio-Political approach of the subject.

CO 03 Mould themselves into better citizens by understanding the notion of democracy and a set of other ideologies.

CO 04 Learn the notion of co-existence in a society with multicultural setup.

MJC-10 :Political Philosophy (Theory: 4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**1.** Political Philosophy: Its Nature and Distinction from Political Science **2.** Individual and Society **3.** Political Concepts: **i)** Liberty **ii)** Equality **iii)** Fraternity **iv)** Justice **v)** Political Obligation	10
2	**1.** Political Ideologies: **i)** Democracy **ii)** Socialism **iii)** Secularism **iv)** Humanism **v)** Integral Humanism (Ekatma Manavvada)	15
3	**1.** Method of Political Action: **i)** Terrorism **ii)** Revolution **iii)** Satyagraha **iv)** Antyodaya **v)** International Morality	15
	TOTAL	40

Suggested Readings :

1. D.D.Raphael, Problems of Political Philosophy
2 McIver and Page, Society: An Introductory Analysis
3 Verma, Ashok Kumar, Prarambhik Samaj evam Rajniti Darshan
4 Ramendra, Samaj aur Rajniti Darshan
5 Aatankvad Ek Samasya – Dr. Avay Kumar Singh
6 Samaj Aur Rajneeti Ka Darshnik Adhyayan – Dr. Gyananjai Dwivedi



SEMESTER VI

MJC-11 : Contemporary Indian Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will have to:

CO 01 Develop a better orientation towards Indian philosophical heritage with a rational viewpoint.
CO 02 Understand and interpret issues concerning trends of contemporary Indian philosophy.
CO 03 Achieve philosophical clarity of Indian traditions in philosophy.

MJC-11 : Contemporary Indian Philosophy (Theory: 5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**1. Vivekanand :** Universal Religion, Four Kinds of yoga, Concept of man.	10
2	**2. Radhakrishnan :** Intellect and Intuition, Concept of Absolute Reality, Unity of Religion.	15
3	**3. Aurbindo :** Integral yoga, Evolution & Involution, Concept of Sacchidanand	15
4	**4. Ambedkar :** Criticism of Castism, Neo-Budhism, Social Evil	10
	TOTAL	50

Suggested Readings :

1. विवेकानंद का सर्वांग समन्वयवाद – डॉ० राजीव कुमार
2. समकालीन भारतीय दर्शन – प्रो० बसंत कुमार लाल
3. समकालीन भारतीय चिंतक – प्रो० एन० पी० तिवारी
4. समकालीन भारतीय चिंतक – प्रो० रमेश चन्द्र सिन्हा एवं विजय श्री
5. समकालीन भारतीय दर्शन – प्रो० लक्ष्मी सक्सेना
6. भगवान बुद्ध और उनका धर्म – डॉ० भीमराव अम्बेडकर
7. भारत मे जातियाँ – उनका मशीनीकरण, उत्पत्ति और विकास – डॉ० भीमराव अम्बेडकर
8. भगवान बुद्ध और उनका धम्म – डॉ० भीमराव अम्बेडकर
9. Contemporary Indian Philosophy – Dr. B. K. Lal

SEMESTER VI

MJC-12 : Trends of Yogic-Philosophy

Division of Marks:

ESE - 70
CIA - 30
Total - 100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15) – 15 marks
B. Seminar/Quiz/Presentation/Assignment – 10 marks
C. Attendence and Conduct – 05 marks

Course Objectives

After completion of the course, the student will be able to:

CO 1: To develop the understanding of Yogic Science (Vedic Science) as an alternative science
CO 2: To develop the understanding that how our moral thinking and behaviour have their impact on our physical and mental health.
CO 3: To develop an integrated personality by harmonizing IQ, EQ and SQ which is the great need of present world.

MJC-12: Trends of Yogic-Philosophy (Theory : 5 Credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**Introduction :** 1. Definition and significance of yoga 2. Yoga as End and Means	05
2	**Yoga and its kinds :** 1. Karma-Yoga, Jnana-Yoga, Bhakti-Yoga and Raja-Yoga 2. Hath-Yoga, Dhyan-Yoga, Mantra-Yoga and Kriya-Yoga	15
3	**Trends of Yoga in Ancient Indian Philosophy :** 1. Chittavrittinirodha according to Patnjal Yogasutra 2. Synthesis of Yoga in Bhagvargita 3. Relevence of Yoga in wordly life. (Yogakarmsu kaushalam)	15
4	**Yoga and Health :** 1. Well being through the practice of Aasan, Pranayam, Shat-Karma, Dhyan and Yoga-Nidra	15
	Total	**50**

Suggested Readings:

1. A. Critical Survey of Indian Philosophy : C.D. Sharma
2. Shrimad Bhagvatgita : Dr. S. Radha Krishanan
3. Philosophy of Yoga : Swami Jnanananda
4. आसन प्राणायाम मुद्र बन्ध : स्वामी सत्यानंद सरस्वती
5. संपूर्ण योग विज्ञान : राजीव जैन त्रिलोक
6. बुद्धि, भावना एवं कर्म : स्वामी निरंजनान्द सरस्वती
7. Autobiography of a Yogi : Paramhansa Yogananda
8. योगी कथामृत : परमंहस योगनन्द
9. योगपथ : जीवन पाथेय, डॉ० सुधा जैन
10. योग के आयाम : डॉ० महेश प्रसाद सिंह
11. योग मनोविज्ञान : डॉ० श्यामल किशोर

SEMESTER VII

MJC-13 : Schools of Buddhism

Division of Marks:

ESE - 70
CIA - 30
Total - 100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15) – 15 marks
B. Seminar/Quiz/Presentation/Assignment – 10 marks
C. Attendence and Conduct – 05 marks

Course Objectives

After the completion of the course, the student will have to:

CO 01 Understand Buddha's teachings which will help to cultivate compassion for others leading to a more harmonious relationships and compassionate outlook of life.

CO 02 Understand Buddha's ethical principles to lead a morally upright and responsible life.

CO 03 Understand Buddha's moral philosophy which emphasizes the need of the elimination of suffering. With this objective Buddha developed his metaphysical or ontological thoughts also.

MJC-13: Schools of Buddhism (Theory: 5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Trends of Buddhism after Buddha. 2. Buddhist Councils and development and division (Schicism) of Buddhism.	10
2	1. Buddhist school of Theravada or Hinyana. 2. Vaibhasic school of Buddhism. 3. Sarvastivada school of Buddhism.	15
3	1. Basic Concept of Shunyavada. 2. Basic Concept of Vigyanavada.	15
4	1. Devotional Buddhism and concept of Bodhisattva. 2. Concept of trikaya in Mahayan Buddhism.	10
	TOTAL	50

Suggested Readings :

1. T.R.V, Murti – The Central Philosophy of Buddhism.
2. A.K. Chatterjee – The Yoga Cara Idealism.
3. Mrs. Rhys Davids – A Manual of Buddhism.
4. 2500 years of Buddhism – Prof. P. Y. Bapat
5. The Centrality of Ethics in Buddhism – Prof. H. S. Prasad
6. बौद्धधर्म – दर्शन – आचार्य नरेन्द्र देव
7. Buddhism : Its Essence and Development – Edward Conze
8. A Survey of Buddhist Thought – Alfred Scheepers
9. An Introduction to Buddhism Teaching, Histroy and Practices – Peter Harvey
10. A Critical Survey of Indian Philosophy – Prof. C. D. Sharma
11. Central Philosophy of Buddhism : A Study in Madhyamika System – T. R. V. Murti

SEMESTER VII

MJC-15: Contemporary Western Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will have to:

CO 01 Develop a better orientation towards Western philosophical heritage with a rational viewpoint.
CO 02 Understand and interpret issues concerning trends of contemporary Western philosophy.
CO 03 Achieve philosophical clarity of Western traditions in philosophy.

MJC-15 : Contemporary Western Philosophy (Theory: 6 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**1. MOORE :** Refutation of Idealism, Defence of common sense. **2. Russell :** Logical Atomism. **3. Early Wittgenstein :** Picture theory of meaning, private language.	20
2	**1. Logical positivism :** Verificational theory of meaning, Elimination of metaphysics. **2. Later Wittgenstein :** Meaning and use, language game, critique of private language.	20
3	**1. Phenomenology (Husserl) :** Theory of essence, Elimination of psychologism. **2. Existentialism :** **Kierkegaard :** Truth is subjectivity, sphere of existence. **Sartre :** Existence and essence, choice, responsibility and authentic existence. **Heidegger :** Being-in-the-world and Temporality.	20
	TOTAL	60

Suggested Reading:

1. Sartre, Being and nothingness
2. Early Wittgenstein, Tractatus logico philosophicus
3. Later Wittgenstein, Philosophical Investigation
4. Prof Nityanand Misra, Samkalin Paschatya Darshan.
5. B.K. Lal, Samkalin Paschatya Darshan.
6. D.M. Dutta, Chief Current of Philosophy.
7. Prof Lakshmi Saxena, Samkalin Paschatya Darshan.
8. Prof. Rishikant Pandey, Dharm Darshan.

SEMESTER VIII

MJC-16 : Indian Logic and Indian Epistemology

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will have to:

1. Develop the understanding of the Indian process of reasoning / tarka.
2. Develop the understanding of Indian process of knowledge and Wisdom.
3. Develop the Indian attitude towards understanding of world view.

MJC-16 : Indian Logic and Indian Epistemology (Theory: 4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**Indian Logic :** 1. Definition and significance of Anumana according to Nyaya philosophy. 2. Kinds of Anumana – Swarthanumana and Pararthanumana. 3. Constituents of Anumana	10
2	1. Vyapti 2. Hetvabhasa	10
3	**Indian Epistemology :** 1. Nature and kinds of knowledge. 2. Definition and kinds of perception according to Nyaya. 3. Definition and kinds of perception according to Jainism and Buddhism	10
4	1. Shabda Pramana 2. Upamana Pramana 3. Arthapatti Pramana 4. Anupalabdhi Pramana	10
	TOTAL	40

Suggested Reading :

1. S.C. Bidya bhushan : A History of Indian Logic.
2. N. P. Tiwari : Bharatiya Tarkashatra Parichaya.
3. Nilima Sinha : Bharatiya Gyan mimamsa.
4. kasha Nath Upadhya : Nyaya Sashra ki Ruprekha.
5. D. M. Dutta : Six ways of Knowing
6. ब्रज नारायण शर्मा : भारतीय दर्शन में अनुमान
7. केदारनाथ तिपाठी . भारतीय तर्कशास्त्र परिचय
8. Dr. Manju Kumari : Bhartiya Gyan Mimansa
9. Chakradhar Bijlvan: Bhartiya Nayashastra

SEMESTER III

MIC-03: Indian Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After completion of the course, the student will be able to:

CO 1. Develop a perspective on the foundations of the Indian philosophical ideas.
CO 2. Understand the concepts of the development of the Indian philosophical schools
CO 3. Develop a perspective on the different Indian methods to analyze the different problems of Philosophy.

MIC-03 : Indian Philosophy (Theory : 3 Credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Salient Features of Indian Philosophy. 2. Aastik and Nastik Darshan.	5
2	1. Charvaka- Epistemology, Dehatmavada, & Ethics. 2. Buddha Philosophy – Four Noble Truth 3. Jaina Philosophy – Jiva, Bondage & Liberation.	10
3	1. Nyaya Philosophy – Types of Pramanas. 2. Vaisheshika Philosophy – Padarth.	5
4	1. Sankhya Philosophy – Purusha and Prakriti. 2. Yoga Philosophy – Eight fold Path,	5
5	1. Vedanta Philosophy : a) Shankar – Brahma and World, b) Ramanuj – Brahma and world	5
Total		**30**

Suggested Readings:

1. M. Hiriyanna, Outlines of Indian Philosophy.
2. C.D.Sharma, A Critical Survey of Indian Philosophy.
3. S. N. Das Gupta – History of Indian Philosophy- Vol. I, II & III.
4. S. Radhakrishnan – Indian Philosophy.
5. J. N. Sinha – Indian Philosophy.
6. हरेन्द्र प्रसाद सिन्हा–भारतीय दर्शन की रूपरेखा
7. बी. एन. सिंह –भारतीय दर्शन
8. चटर्जी एवं दत्ता–भारतीय दर्शन
9. बलदेव उपाध्याय –भारतीय दर्शन
10. Dr. Vijay Kumar – Jain evam Baudh Siksha Darshan.

SEMESTER IV

MIC-04: Indian Ethics

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will have to:

CO 01 Develop a better orientation towards Indian ethical heritage.
CO 02 Understand Indian moral philosophy in comparison with western frame work.
CO 03 Achieve philosophical clarity in applying traditional moral wisdom in present context.

MIC-04 : Indian Ethics (Theory: 3 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	Indian Concept of Morality as distinguished from Non-morality and Immorality	05
2	**The Systems :** (a) Charvaka – Hedonism (b) Nyaya – Vaisheshika (Adrishta) (c) Yoga- Yama & Niyama (d) Jain – Panch Mahavrata (e) Buddhism – Brahmvihar (f) Mimansa – Apurva	15
3	**Moral Concepts** : Purushartha, Varnasharma, Pravriti and Nivriti, Jivanmukti.	10
	TOTAL	30

Suggested Readings :

1. Kedar Nath Tiwari : Classical Indian Ethical Thought : Motital Banarsidas.
2. I.C. Sharma : Ethical Philosophies of India.
3. S.K. Maitra : The Ethics of the Hindus.
4. Ashok Kr. Verma : Nitishastra ki Ruprekha, Motilal Banarasidas.
5. Nityananda Mishra : Nitishastra – Siddhant tatha Prayog.
6. भारतीय दर्शन में जीवन के मूल्य – प्रो० मंगला रानी

SEMESTER V

MIC-5: Western Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will have to:

CO 1. Develop a better orientation towards Western philosophical heritage with a rational viewpoint.
CO 2. Understand and interpret issues concerning trends of contemporary Western philosophy.
CO 3. Achieve philosophical clarity of Western traditions in philosophy.

MIC-5: Western Philosophy
(Theory: 3 credits)
Full Marks-100

Unit	Topics to be covered	No. of Hours
1	1. Descartes: Method, Cogito-Ergo- Sum, Mind Body Relation 2. Spinoza: Geometrical method,Substance, 3. Leibnitz: Monads, Pre-established harmony.	10
2	1. Locke: Simple and Complex ideas. 2. Berkeley: Refutation of Matter, Esse- est – percipi 3. Hume : Causation, Scepticism	10
3	**Kant-** 1. Reconciliation of Rationalism and Empiricism.	10
	TOTAL	30

Suggested Readings:

1. Y. Masih, A Critical History of Western Philosophy.
2. C. D. Sharma, Paschatya Darsan.
3. Russell, A History of Western Philosophy.
4. F. Thilly, History of Western Philosophy.
5. W. T. Stace, A Critical History of Greek Philosophy
6. Dr Vijay Kumar, Paschatya Darsan ke Pramukh Sidhant.
7. Dr. B. N. Singh – Paschatya Darshan Ki Samsyayen

SEMESTER V

MIC-06 : Western Ethics

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After completion of the course, the student will be able to:

CO 1. To analyze and critically evaluate various ethical theories and their applications.

CO 2. Understand and interpret issues concerning human conduct with a moral rational approach.

CO 3. Achieve philosophical clarity in a given situation of different moral issues.

MIC-06: Western Ethics (Theory : 3 Credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Nature and scope of Ethics, 2. Normative Ethics, Meta-ethics and Applied Ethics.	5
2	1. Postulates of morality, 2. Moral and Non- moral action. 3. Nature and object of moral judgement.	10
3	1. Standard of Morality : External laws, Hedonism, Rigorism Theories of Punishment : Deterrent theory, Retributive theory and Reformative theory.	15
Total		**30**

Suggested Readings:

1. W. Lillie – An Introduction of Ethics.
2. W Frankena, Ethics, Prentice Hall of India Private Limited, New Delhi. 1982.
3. J.S. Mill - Utilitarianism
4. Kant – Ground work of the Metaphysics of morals.
5. डॉ. बी. एन. सिंह –नीतिशास्त्र
6. डॉ. वेद प्रकाश वर्मा–नीतिशास्त्र के मूलसिद्धांत
7. डॉ. ए. के. वर्मा–नीतिशास्त्र की रूपरेखा
8. डॉ. शांति जोशी–नीतिशास्त्र
9. प्रो० ज्ञानंजय द्विवेदी–अधिनीतिशास्त्र का सरल अध्ययन

SEMESTER VI

MIC-07 : Basic Concepts of Philosophy

Division of Marks:

ESE - 70
CIA - 30
Total - 100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15) – 15 marks
B. Seminar/Quiz/Presentation/Assignment – 10 marks
C. Attendence and Conduct – 05 marks

Course Objectives

After completion of the course, the student will be able to:

CO 01: To analyze and critically evaluate various philosophical theories and their applications.

CO 02: Understand and interpret issues concerning human conduct with a clear and rational approach.

CO 03: Achieve philosophical clarity in a given situation of different phases of life.

MIC-07: Basic Concepts of Philosophy (Theory : 3 Credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**Introduction :** 1. Nature of philosophy and Darshan shastra 2. Relation of Philosophy with Science and Religion 3. Main branches of philosophy.	05
2	**Ontology (Western Philosophy) :** 1. Concept of Ultimate Reality 2. Relation between Ultimate Reality and World as Immediate reality. 3. Theories related to the Nature of Ultimate Reality Materialism, Idealism and Dualism. 4. Origin of World : Creationism and Evolutionism.	15
3	**Ontological Concepts (Indian Philosophy) :** 1. Brahma : Saguna and Nirguna 2. Aatma : Jain, Sankhya 3. Causation : Satkaryavada & Asatkaryavada 4. God : Nyaya and Yoga Darshan	10
5	**Total**	30

Suggested Readings:

1. J. N. Sinha : Intoduction to Philosophy
2. राजेन्द्र प्रसाद : दर्शन शास्त्र की रूपरेखा
3. अशोक कुमार वर्मा : तत्वमीमांसा एवं ज्ञानमीमांसा
4. केदार नाथ तिवारी : तत्वमीमांसा एवं ज्ञानमीमांसा
5. ज्ञानंजय द्विवेदी : तत्वमीमांसीय और ज्ञानमीमांसीय समस्यायें (समग्र व वस्तुनिष्ठ समाधान)
6. चन्द्रधर शर्मा : भारतीय दर्शन आलोचना एवं अनुशीलन
7. हरेन्द्र प्रसाद सिन्हा : भारतीय दर्शन की रूपरेखा

SEMESTER VI

MIC-08: Philosophy of Religion

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will be able to:

CO 01 Learn to think philosophically about religion. They will be able to move away from irrational blind faiths and dogmas.

CO 02 Develop the attitude of religious tolerance which is conducive for a multi-religious society.

MIC-08 : Philosophy of Religion (Theory: 3 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Philosophy of Religion: Its Nature and relationship to Theology. 2. Nature of Religion, Religion and Morality, Religion without God. 3. Distinguish between Dharma and Religion.	10
2	1. Religious Consciousness. 2. Attributes of God 3. Arguments for the existence of God: Ontological, Cosmological, Teleological and Moral Argument.	10
3	3. Problem of Evil: Natural and Moral Evil. 4. Theistic Solution of the Problem of Evil.	10
	TOTAL	30

Reading List:

1. John Hick, Philosophy of Religion.
2. Yaqub Masih, Introduction to Religious Philosophy.
3. Yakub Masih, Samanya Dharma Darshan evam Darshnik Vishleshan.
4. Verma, Ved Prakash, Dharma Darshan ki Mool Samasyayen
5. Dr. Ramendra, Dharma Darshan: Samanya evam Tulnatmak
6. Prof. Harendra Prasad Sinha, Dharma Darshan ki Ruparekha
7. प्रो० ज्ञान्नजय द्विवेदी – धर्मदर्शन की समस्याएँ (समग्र व – वस्तुनिष्ठ समाधान)
8. ऋषि कान्त पाण्डेय, धर्म–दर्शन

SEMESTER VII

MIC-09: Social and Cultural Philosophy

Division of Marks:

ESE - 70
CIA - 30
Total - 100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15) – 15 marks
B. Seminar/Quiz/Presentation/Assignment – 10 marks
C. Attendence and Conduct – 05 marks

Course Objectives

After the completion of the course, the student will be able to:

CO 01 Understand the Philosophical Background of Society and Culture.
CO 02 Understand the need and direction of Socio-Cultural Reform.
CO 03 Understand the Cultural Background of Economic Growth and Progress.

MIC-09 : Social and Cultural Philosophy (Theory: 4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	1. Nature of Social Philosophy 2. Its Relation with Sociology and Psychology.	05
2	1. Social Change : a) Factors of Social Change b) Tradition and Modernity 2. Social Stratification (Varna and Class), Social Mobility	10
3	1. Concepts of Culture 2. Characteristics of Indian Culture	05
4	1. Components of Culture a) Dharma / Religion b) Philosophy c) Language & literature, Arts & Craft (Aesthetics) & Sangeet d) Economy 2. Culture and its Relationship with Reform (Social) and Growth (Human Resource and Economic)	20
	TOTAL	40

Suggested Readings :

1. प्रारम्भिक समाज एवं राजनीति दर्शन : डॉ० अशोक कुमार वर्मा
2. Social Philosophy : J. S. Mackenzie
3. The Social Contract : J.J. Rousseau
4. समाज दर्शन का परिचय : डॉ० शिवभानु सिंह
5. पर्यावरणीय सौन्दर्य दर्शन (तथ्य और अनुशीलन) : प्रो० किस्मत कुमार सिंह
6. संस्कृति के चार अध्याय : रामधारी सिंह 'दिनकर'
7. भारतीय संस्कृति : डॉ० देवराज
8. भारतीय संस्कृति : नरेन्द्र मोहन
9. सनातन संस्कृति का मूलज्ञान : प्रतीक प्रजापति
10. भारतीय संस्कृति, धर्म और दर्शन : डॉ० शशि शर्मा, डॉ० सुषमा देवी
11. संस्कृति दर्शन : हिम्मत सिंह
12. हमारी संस्कृति : प्रो० मंगलारानी

SEMESTER VIII

MJC-10: Political Philosophy

Division of Marks:

ESE	-	70
CIA	-	30
Total	-	100

The question paper pattern of End Semester Examination (ESE) shall consists of three parts-

Part A – Compulsory – consisting of objective/multiple choice type- each carrying two marks - 10x02=20 marks

Part B –Short Answer Type-Four questions to be answered out of six questions- each carrying five marks - 04x05=20 marks

Part C –Long Answer Type- Three questions to be answered out of Five questions- each carrying ten marks - 03x10=30 marks

Continuous Internal Assessment (CIA) –

A.One mid-semester written tests (1x15)	–	15 marks
B. Seminar/Quiz/Presentation/Assignment	–	10 marks
C. Attendence and Conduct	–	05 marks

Course Objectives

After the completion of the course, the student will be able to:

CO 01 Define the nature of Political Philosophy and its relations to Political Science.

CO 02 Know rights and duties of Individuals and characteristics of institutions through Socio-Political approach of the subject.

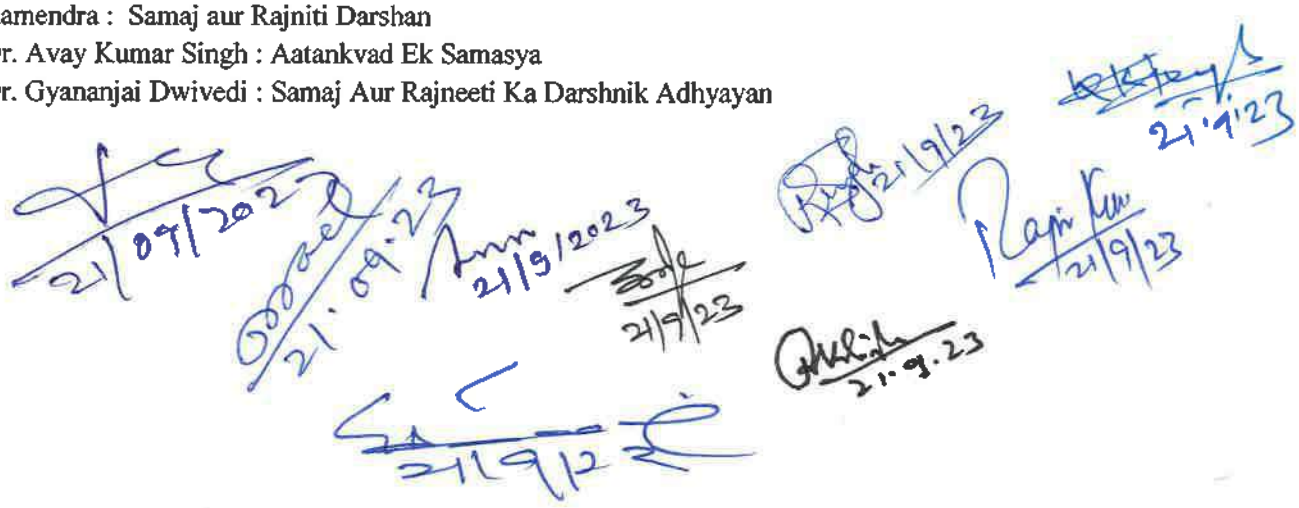
CO 03 Mould themselves into better citizens by understanding the notion of democracy and a set of other ideologies.

CO 04 Learn the notion of co-existence in a society with multicultural setup.

MJC-10 :Political Philosophy (Theory: 4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Hours**
1	**1.** Political Philosophy: Its Nature and Distinction from Political Science **2.** Individual and Society **3.** Political Concepts: **i)** Liberty **ii)** Equality **iii)** Fraternity **iv)** Justice **v)** Political Obligation	10
2	**1.** Political Ideologies: **i)** Democracy **ii)** Socialism **iii)** Secularism **iv)** Humanism **v)** Integral Humanism (Ekatma Manavvada)	15
3	**1.** Method of Political Action: **i)** Terrorism **ii)** Revolution **iii)** Satyagraha **iv)** Antyodaya **v)** International Morality	15
	TOTAL	40

Suggested Readings :

1. D. D. Raphael : Problems of Political Philosophy
2 MacIver and Page : Society An Introductory Analysis
3 Verma, Ashok Kumar : Prarambhik Samaj evam Rajniti Darshan
4 Ramendra : Samaj aur Rajniti Darshan
5 Dr. Avay Kumar Singh : Aatankvad Ek Samasya
6 Dr. Gyananjai Dwivedi : Samaj Aur Rajneeti Ka Darshnik Adhyayan



To

The Principal Secretary to Governor

Governor's Secretariat, Bihar

Patna

Ref: Memo no. BSU (UGC) 02/2023-1457 GS (I) Dated-14.09.2023

Sir,

With reference to your letter Memo no.- BSU (UGC) 02/2023-1457 GS (I) Dated-14.09.2023, we are herewith submitting one set of prepared syllabus for 4 year undergraduate courses (Bachelor of Arts-Economics) based on CBCS to you for your perusal and consideration.

Following members were authorized by your above reference letter.

With kind regards,

19.09.23

Prof. (Dr.) Dhirendra Kumar Singh
Professor, PG Deptt. of Economics, VKSU , Ara

19.09.23

Prof. (Dr.) B. K. Lal
University Deptt. of Economics, Patna University, Patna

19/09/2023

Prof. (Dr.) Rashmi Akhoury,
Deptt. of Economics, COCAS, PPU, Patna

19.9.23

Prof. (Dr.) Umesh Prasad,
Professor, Deptt. of Economics, COCAS, PPU, Patna

19/9/23

Dr. Siddharth Bhardwaj,
Assistant Professor,
Deptt of Economics
Patna College,
Patna University,Patna

19/9/23.

Dr. Manoj Prabhakar,
Assistant Professor,
University Deptt. of Economics, Patna University, Patna

19/9/2023

Prof. (Dr.) Nisha Kumari,
PG Deptt. of Economics, TMBU, Bhagalpur

19.09.23

Dr. Yadawendra Singh,
Assistant Professor, C.M. College, L.N. Mithila University, Darbhanga

19.09.2023

Dr. Sourav Kumar,
Assistant Professor,
University Deptt. of Economics, Magadh University, Bodh Gaya

19.9.23

Prof. (Dr.) Rajeshwar Prasad Shrivastava,
PG Deptt. of Economics, J.P. University, Chhapra

19.09.23

Prof. (Dr.) Ranjana Singh,
RD & DJ College, Munger University, Munger

19/9/23

Dr. Shahid Hussain,
Associate Professor, PG Deptt. of Economics, BNMU, Madhepura

19/9/23

Prof. (Dr.) Alok Pratap Singh,
Deptt. of Economics, RDS College, Muzaffarpur

Semester III
MJC- 3: INTRODUCTORY MACROECONOMICS
(Credit: 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop a proper and in- depth understanding of variables dealing with the aggregate economy.

CO2: Analyse the basics of National Income Accounting, which will help them to describe andanalyze the economy in quantitative terms.

CO3: Understand the major issues and concerns of the economy such as unemployment, inflation, poverty and economic growth.

CO4: Describe Functions of Money and Determination of Money Supply and Demand

Unit	Topics to be covered	No. of Lectures
1	**Introduction to Macroeconomics and National Income Accounting** The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues ,the Role of Government in Macroeconomics ,the components of Macroeconomics ,methodology to macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personaldisposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP, concept of social accounting, limitations of GDP as a measure of social welfare, difficulties in measuring national income in developing economies ,GDP and black economy ,concept of base year and GDP index	20
2	**Money and Banking** Functions of money; quantity theory of money; fundamental equations; Keynesian theory of money and prices, determination of money supply and demand; Centralbanking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	20
3	**The Closed Economy in the Short Run** Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination , Aggregate supply and demand , fiscal and monetary multipliers, limitation and Relevance of Keynesian economics to developing economy	20
	TOTAL	60

Suggested Readings:

Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.

N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.

Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.

Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.

Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition,2011.

SEMESTER - III
MJC- 4: STATISTICAL METHODS IN ECONOMICS
(Credit: 4)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Learn the Basic Concepts of statistics and its application

CO2: Understand Bayes Theorem, Normal Distribution, Poisson Distribution

CO3: Understand Elementary Probability Theory including Probability Distribution

CO4: Apply the methods of calculating covariance and also the concept of correlation coefficient and regression analysis

Unit	Topics to be covered	No. of Lectures
1	**Basic Statistics** Measures of Central Tendency: Mean, Median Mode, Geometric Mean, Harmonic Mean; Measures of Dispersion: Mean Deviation, Quartile Deviation, Standard Deviation;Moments, Skewness, Kurtosis, Gini coefficient , Lorenz Curve, Bivariate Frequency Distribution: Simple Correlation and Linear Regression Analysis	20
2	**Index Number** Concept of Index Number, Laspeyre's Paasche's and Fisher's Ideal Index Number, Tests for Ideal Index Number, Problems in Construction of Index Number, Applications: Cost of living index Number	10
3	**Concept of Probability and Probability Distribution: Sample space and events;** probability axioms and properties; Concept of random variable, Addition and Multiplication Theorem, Conditional Probability and Bayes Theorem Probability Distributions: Binomial, Poisson and Normal Distribution-properties, mean and variance.	15
4	**Sampling Theory and Estimation** Concept of Sampling, Methods of Sampling, Types of Sampling, Concept and properties of an estimator, Point and Interval Estimation.	5
	TOTAL	50

Suggested Readings:

Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.

John E. Freund, Mathematical Statistics, Prentice Hall, 1992.

Gupta S.P, Statistical Methods, S.Chand & Sons, New Delhi.

Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.

Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.

SEMESTER- IV
MJC- 5: INTERMEDIATE MICROECONOMICS 1
(Credit: 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Frame their budget according to their income and price constraint.
CO2: Develop knowledge about how the prices are determined in different forms of market.
CO3: Apply Demand and Supply Analysis to Market.
CO4: Deal with the concept of Consumer Behavior.

Unit	Topics to be covered	No. of Lectures
1	**Ordinal Utility Analysis:** Concept, Assumptions, Tools: Indifference curve and Budget line, income effect, substitution effect and price effect for normal and inferior goods, Slutsky equation and Hicksian Substitution effect; Revealed preference theory,deriving demand theorem from the Revealed Preference Hypothesis and critical appraisal of Revealed Preference Hypothesis. Revision of Demand Theory: weak and strong ordering, Recent development in Demand Theory.	20
2	**Production, Costs and Revenue Analysis** Production with one and more variable inputs; law of variable proportion, returns to scale, optimum factor combination, Production possibility curve, elasticity of substitution Traditional and Modern approaches to cost Behaviour of Cost and Revenue curves under different market conditions , Internal and external economies and diseconomies of scale, Concept, assumptions, characteristics and types of Production function with examples, estimation and their applications: Homogeneous, Linear Homogenous and Cobb-Douglas Production Function, Production function and technological change.	20
3	**Perfect Competition and Monopoly** Review of perfect competition: features, price and output determination under perfect competition in short and long run, total and marginal approach. Monopoly: features, conditions for existence of monopoly, price and output determination under monopoly, measurement of the degree of monopoly power, pricing with market power; price discrimination; government policies towards monopoly and competition	20
	TOTAL	60

Suggested Readings:

Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.
B. Douglas Bernheim and Michael D. Whinston, *Microeconomics*, Tata McGraw- Hill (India), 2009

SEMESTER - IV
MJC-6: INTERMEDIATE MACROECONOMICS
(Credit – 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop a proper and in-depth understanding of variables dealing with the Macroeconomics.

CO2: Understand the basics of closed and open economy models.

CO3: Understand issues and concerns of the economy such as unemployment and inflation.

CO4: Understand the concept and function of Money and Determination of Money supply and demand.

Unit	Topics to be covered	No. of Lectures
1	**The Closed Economy in the Short Run** Classical Macroeconomics: Money, prices and interest, Keynesian system: money, interest and income, IS-LM model, policy effects, Analysis of Business cycle: phases of business cycle, theories of business cycle: Hawtrey, Keynes, Samuelson, and Hicks.	20
2	**Inflation, Unemployment and Expectations** Inflation its types and causes; cost of inflation, the Fisher effect, unemployment: concept, types, measurement and effect on different sections of society, Philips curve, Adaptive and Rational expectation hypothesis, policy implications.	20
3	**Open Economy Models** Short-run open economy models; Mundell-Fleming Model; exchange rate determination; Purchasing Power Parity; Asset market approach; Dornbusch's Overshooting Model; monetary approach to balance ofpayments; international financial markets.	20
	TOTAL	60

Suggested Readings:

Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.

N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.

Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.

Steven M. Sheffrin, *Rational Expectations*, Cambridge University Press, 2nd edition, 1996.

Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc.,7th Edition,2011.

Errol D'Souza, *Macroeconomics*, Pearson Education, 2009

Paul R. Krugman, Maurice Obstfeld and Marc Melitz, *International Economics*, PearsonEducation Asia, 9th edition, 2012.

SEMESTER - IV
MJC - 7: INDIAN ECONOMY
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:
CO1: Examine sector-specific policies and their impact in shaping trends in key economic indicators in India.
CO2: Evaluate the Indian Empirical evidence
CO3: Analyze the rapid Economic changes taking place in the economy
CO4: Learn about the role of agriculture and industry in Economic development and their performancein Indian perspective.

Unit	Topics to be covered	No. of Lectures
1	**Economic Development since Independence** Characteristics of Indian Economy, Main features of the economy at independence; Structural change, growth and developmentunder different policy regimes—goals, constraints, institutions and policyframework; an assessment of sectoral performance, sustainability and regional contrasts; structural change, trends of savings and investment.	10
2	**Indian Agriculture:** Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Trends in Agricultural growth and Productivity; Land Reforms; Green and Rainbow Revolution; Agricultural Marketing; Agricultural Price Policy; Food Security in India, status , prospect and problem of food processing in India	15
3	**Indian Industry and Services Sector** Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, labour issues and social security, Services Sector: growth and present state of IT, hospitality and financial sector inIndia, Fiscal and Financial Sector Reforms in India. Foreign Trade in India - Composition and Direction.	15
4	**Bihar Economy:** General features of the economy, performance, major challenges and causes of backwardness in different sectors. Human ResourceDevelopment- Concept and Emerging Issues, Polices for unemployment, Migration- Dimension and its impact. Policies and Programmes of the State Government for development of different sectors.	20
	TOTAL	60

Suggested Readings:
Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8,I in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development andParticipation*, Oxford University Press.
Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.
Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27*.
Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra Athukorala, editor, *The Rise of Asia*, Routledge

SEMESTER - V
MJC 8: INTERMEDIATE MICROECONOMICS 2
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Differentiate between Partial and General Equilibrium
CO2: Analyse the behavior patterns of different economic agents and market situations
CO3: Understand Imperfect Competition and Distribution theory
CO4: Learn about Externalities and Market Failure

Unit	Topics to be covered	No. of Lectures
1	**Imperfect Markets** Imperfect markets :common features, price and outputdetermination in monopolistic competition, concept of excess capacity, non price competition: selling cost and advertising, cost plus(mark up)pricing theory, various approaches to price and output determination under Oligopoly-classical models of oligopoly: duopoly Cournot model, collusive oligopoly: cartel and price leadership, basic idea of kinked demand curve.	20
2	**Distribution Theory (Pricing of Factors)** Concepts of factor productivity, Marginal Revenue Product (MRP) and Value of Marginal Product (VMP), pricing of factors in perfect and imperfect market, Marginal productivity theory of distribution, Euler's theorem and product exhaustion problem, technological progress and factorshares in income, some major theories of distribution: Ricardian theory of rent, modern concept of rent, quasi rent, Classical andKeynesian theory of interest, Innovation theory of profit, Knight's theory of profit.	10
3	**Market Failure** Concept and causes of market failure, correction of market failure,,market failure and market imperfections, market failure vs. government failure, Externalities in production and consumption, Coase Theorem, public goods, semipublic goods, private goods, merit and demerit goods , markets with asymmetric information.	15
4	**General Equilibrium, Efficiency and Welfare** Concept of Partial and General Equilibrium, Welfare concept, Walrasian General Equilibrium, concept and conditions of Pareto Optimality, perfect competition and Pareto Optimality, perfect market asefficient market: existence and stability of equilibrium under perfect competition,	15
	TOTAL	60

Suggested Readings:

Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010.
B. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw- Hill (India), 2009.
A. Ahsan, C. Pages and T. Roy, 2008, -Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins, Consequences and the Way Forward, in D. Mazumdar and S. Sarkar,editors, Globalization, Labour Marketsand

Inequality in India, Routledge.
Dipak Mazumdar and Sandeep Sarkar, 2009, -The Employment Problem in India and the Phenomenon of the Missing Middle, Indian Journal of Labour Economics.
J. Dennis Rajakumar, 2011, -Size and Growth of Private Corporate Sector in Indian Manufacturing, Economic and Political Weekly, April.

SEMESTER - V
MJC – 9: PUBLIC FINANCE
(Credit - 5)

Course Outcomes
After the completion of the course, the student will be able to:
CO1: Understand the importance of Public finance
CO2: To understand the implications of fiscal policy
CO3: To analyse the trends and composition of public expenditure in India
CO 4: To understand the importance of Fiscal Federalism

Unit	Topics to be covered	No. of Lectures
1.	**Introduction to Public Finance** Public Finance: Meaning, Nature, Scope and Importance; difference between Private and Public Finance; Principle of Maximum Social Advantage; Role of State in Public Finance. Fiscal functions of State: Allocation, Distribution, Economic Growth and Stabilisation.	20
2.	**Sources of Revenue** Taxes, loans, grants and aid – meaning and types, canons/ principles of taxation, problem of justice in taxes, incidence of taxation, taxable capacity; Impact of taxation & tax evasion characteristics of Indian tax system, defects & steps of reform.	14
3.	**Public Expenditure and Debt** Principle of Public Expenditure; Principle of Public Debt and its Methods of Redemption; Effects of Public Expenditure on Production and Distribution; Public Debt in India.	14
4.	**Public Finance in India** Sources of Revenue of Central Government ,State Government and Local Bodies; Concept and Types of Budget, Fiscal Deficit, Deficit Financing and Deficit Budget, Financial relation between Central and State; Finance commission; Fiscal Policy.	12
	TOTAL	60

Suggested Readings:
J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.
H. Rosen, T. Gayer: Public Finance, 9th edition, McGraw-Hill/Irwin, 2009.
Joseph E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000
R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill Publications, 5th edition, 1989
Harvey Rosen, Public Finance, McGraw Hill Publications, 7th edition, 2005.
A. Ghosh and C. Ghosh: Public Finance, PHI Learning, 2014.

Shankar Acharya, 2005 – Thirty Years of Tax Reform in India, Economic and Political Weekly, May14-20.
Report of the 14th Finance Commission, 2015-20.
Economic Survey, Government of India (Latest).
State Finances: A Study of Budgets, Reserve Bank of India (Latest).

SEMESTER - VI
MJC - 10: INTERNATIONAL ECONOMICS
(Credits - 4)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Analyze the issues related to BoP, exchange rates and direction of trade.
- CO2: Describe micro-foundations of the various aggregates of International Economics
- CO3: Explain different International trade theories
- CO4: Learn about different International Institutions and their relevance for Indian Economy.

Unit	Topics to be covered	No. of Lectures
1	**Introduction:** Nature and scope of International Economics, trade surpluses and deficits, the economic basis of trade, terms of trade, Gains from trade, Instruments of trade policy and their impact on international trade, trade barriers (quantitative and qualitative): tariffs, subsidies and quotas, free trade vs. protection: case for free trade, case for protection.	15
2	**Theories of International Trade:** Absolute and Comparative advantage, Opportunity cost theory, Ricardian and Heckscher-Ohlin Model, Leontief's Paradox, Immiserising Growth and the Transfer Problem.	10
3	**Exchange rate and BoP:** Concept and types of Exchange rate, Theories of Exchange rate determination, fixed vs. flexible exchange rate, factors affecting exchange rate, impact of exchange rate on economy, market for foreign exchange, Review of Balance of Payment (BoP) accounting, components of BoP: current and capital account, Disequilibrium of BoP: causes and methods of correction, Adjustment mechanisms, Internal and external balance, Elasticity, Absorption and Monetary Approach to BoP.	18
4	**International Institutions:** WTO, IMF, World Bank, ADB, New Development Bank: Objectives, principles and functions.	7
	TOTAL	50

Suggested Readings:

1. Paul Krugman, Maurice Obstfeld, and Marc Melitz, *International Economics: Theory and Policy*, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.
2. Dominick Salvatore, *International Economics: Trade and Finance*, John WileyInternational Student Edition, 10th edition, 2011.

SEMESTER - VI
MJC - 11: Contemporary Issues in Indian Economy
(Credits - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Demonstrate the Paradigm shift in policy and economic indicators in the post independent India

CO2: Analyse the rapid changes taking place in India in terms of plan period, human development, Education and Health

CO3: Grasp the Concept of poverty and unemployment in Indian perspective

CO4: Analyse the composition volume and direction of foreign trade

Unit	Topics to be covered	No. of Lectures
1	**Dimensions of Economic Development:** Growth distribution and structural change with respect to gender and regional contrast MDG, SDG, Sustainable development, Inclusive growth and Financial Inclusion Capital formation and technological development.	20
2	**Issues in Indian Economic Policy:** Human resource development: Education and Health. Population growth and Economic development, Demographic trends and issues, Demographic dividend; Unemployment, Poverty and Inequality. Macroeconomic stabilization: Trade, Fiscal and Monetary policy Infrastructure development in India Environmental issues in India	25
3	**India's Foreign Trade:** Volume and Trend of Foreign Trade in India, EXIM Policy assessment, India's balance of payment, Globalisation and its impact on Indian Economy, WTO and India.	15
	TOTAL	60

Suggested Readings:

Jean Dreze and Amartya Sen, 2013. An Uncertain Glory: India and its Contradictions, PrincetonUniversity Press.

Pulapre Balakrishnan, 2007, The Recovery of India: Economic Growth in theNehru Era, Economic and Political Weekly, November.

Rakesh Mohan, 2008, -Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, Economic and Political Weekly, May.

S.L. Shetty, 2007, -India's Savings Performance since the Advent of Planning, in K.L. Krishna and A. Vaidyanathan, editors, Institutions and Markets in India'sDevelopment.

Himanshu, 2010, -Towards New Poverty Lines for India, Economic and Political Weekly, January.

Jean Dreze and Angus Deaton, 2009, -Food and Nutrition in India: Facts and Intepretations, Economic and Political Weekly, February.

Himanshu. 2011, -Employment Trends in India: A Re-examination, Economic and Political Weekly, September.

Rama Baru et al, 2010, -Inequities in Access to Health Services in India: Caste, Class and Region, Economic and Political Weekly, September.

Geeta G. Kingdon, 2007, The Progress of School Education in India, Oxford Review of Economic Policy.

J.B.G. Tilak, 2007, -Post Elementary Education, Poverty and Development in India, International Journal of Educational Development.

T. Dyson, 2008, -India's Demographic Transition and its Consequences for Development in Uma Kapila, editor, Indian Economy Since Independence, 19th edition, Academic Foundation.

Kaushik Basu, 2009, -China and India: Idiosyncratic Paths to High Growth, Economic and Political Weekly, September.

K. James, 2008, -Glorifying Malthus: Current Debate on Demographic Dividend in India, Economic and Political

Weekly, June.
Reetika Khera, 2011, -India's Public Distribution System: Utilisation and Impact
Journal of Development Studies.
Aniruddha Krishna and Devendra Bajpai, 2011, -Lineal Spread and Radial Dissipation: Experiencing Growth in Rural India, 1992-2005, Economic and Political Weekly, September.
Kaushik Basu and A. Maertens, eds, 2013, Oxford Companion to Economics, OxfordUniversity Press.

SEMESTER - VI
MJC -12: DEVELOPMENT ECONOMICS
(Credit- 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Understand the different concepts of development and evaluate the gross national growth experience.
- CO2: Analyze the connection between growth and inequality and identify the role of state in economic development
- CO3: Learn about the concept of poverty and its measurement and the connection between inequality and poverty
- CO4: Understand development in global perspective.

Unit	Topics to be covered	No. of Lectures
1	**Growth and Development:** Concept of Economic Growth, Economic Development, Economic Progress and Economic Welfare, Measurement of Economic Growth, Factors of Growth Historical experience of development (Stages of Growth; late industrialization; structural analysis),Poverty and inequality (conceptual issues and measurement; capabilities and entitlements, policies for poverty reduction) State and the market (market failure; government failure; conflict versus complementarity)	20
2	**Determinants of Development** Capital and technical progress (role of capital, capital output ratio; resource allocation; level and pattern of capital formation; pattern of technical progress; technology and unemployment; obsolescence, choice of techniques) Labour and employment issue (population growth; demographic transition; human resource development, surplus labour, open and disguised unemployment, informal sector; rural-urban migration). The Environment and Sustainable development; Non-Renewable resources	20
3	**Theories of Growth and Development:** Balanced and Unbalanced Growth, Big Push Theory, Harrod-Domar Model, Kaldor's Model of Growth	20
	TOTAL	60

Suggested Readings:

Michael P. Todaro, Economic Development, International Student (Sixth) Edition, Addition -Wesley
Debraj Ray, Development Economics, OUP
Gerald M. Meir, Leading Issues in Economic Development, Sixth Edition, OUP

A.P. Thirlwall, Economics of Development, Palgrave Macmillan, 9th Edition.
M. L. Taneja & R.M. Myer, Economics of Development & Planning, Vishal Publishing Co. Jalandhar-Delhi.

SEMESTER - VII
MJC -13: ADVANCED QUANTITATIVE METHODS
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop analytical and organizational skills.
CO2: Use mathematical techniques to analyze the economic problems and their effects.
CO3: Use Differential and Different Equations in Economics.
CO4: Use multi-Variable Optimization.

Unit	Topics to be covered	No. of Lectures
1.	**Integration:** Concept and Methods of Integration – Integration by Substitution, Integration by Transformation & Integration by Parts; Application of Integration in Economics.	10
2	**Functions of Several real Variables:** a. Technique of Partial Differentiation; Second Order Partial Derivatives; Cross Partial Derivatives; Applications of Partial Derivatives in Demand, Utility and Production Analysis. b. Technique of Total Differentials; Second order Total Differentials; Derivatives of Implicit Functions	6
3	**Multi-Variable Optimization:** a. Maxima and Minima of a Function of two or more than two Variables – Hessian Determinants. b. Unconstrained Optimization and Constrained Optimization with Equality Constraints – Use of Lagrange Multiplier. c. Applications of Unconstrained and Constrained Optimization in Economics – Equilibrium of Firm under Pure Competition.	8
4	**Linear Algebra:** Basic Concepts of Vector, Types of Vector, Addition of Vectors, Scalar Product of Two Vectors. Matrix and Determinants: Types of Matrices, Addition and Subtraction of Matrices, Multiplication of two Matrices, Transpose and Inverse of a Matrix, Rank of a matrix, Determinant and its Properties, Solution of Simultaneous Equation Models.	8
5	**Linear Programming, Input Output Model and Game Theory-** Introduction to linear programming, formulation of linear programming problem, concept of duality, solution of linear programming trough graphical method. Input-output analysis- meaning and basic concept Game theory- concepts, strategies- dominant strategy, saddle point, zero-sum game.	16
6.	**Correlation, Regression and Time Series Analysis** a. Partial and Multiple Correlation b. Partial and Multiple Regression c. Time Series Analysis: Components of Time Series and Measurement of Trends	12
	Total	60

Suggested Readings:
Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.
John E. Freund, Mathematical Statistics, Prentice Hall, 1992.
Gupta S.P, Statistical Methods, S.Chand & Sons, New Delhi.
Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.
K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, PearsonEducational Asia:Delhi, 2002.
Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, NewDelhi.
Chiang. A.C. (1988), Fundamental Methods of Mathematical Economics, Mac Graw Hill, New York.
Allen, R.G.D. (1974), Mathematical Analysis for Economists, Mac Millian Press and ELBS, London.
Dowling, E.T. (1992), Mathematical Economics 2nd Edition, Mac Graw Hill, New York.
Yamune, Taro (1975) Mathematics for Economists,Prentice Hall of India, New Delhi.

SEMESTER - VII
MJC -15: BANKING AND FINANCIAL INSTITUTIONS
(Credit - 6)

Course Outcomes

After the completion of the course, the student will be able to:
CO1: Analyse the different concepts of Money
CO2: understand the working of financial markets
CO3: Differentiate between capital and money market
CO4: Explain the working of banking system

Unit	Topics to be covered	No. of hours
1	**Money** Money: Kinds, Functions and Significance, Monetary Standards: Metallic Standard, Gold Standard and Paper Standard, Value of money, Measurement of changes in the value of money, Demand for Money: The Classical Approach, Keynesian Approach. Supply of Money: Definitions—Determinants of Money Supply—High Powered Money and Money Multiplier—Indian Currency system.	20
2	**Financial Institutions, Markets, Instruments and FinancialInnovations** Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises. Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations.	15
3	**Interest Rates** Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.	10
4	**Banking System** Commercial banking: Nature; structure; functions: The process of credit creation-purpose and limitations, Pre-requisites of a sound commercial banking system; Liabilities and assets of Banks.ATM - Internet Banking - Core banking; A Critical Appraisal of the Progress of Commercial Banking after Nationalization; Recent Reforms in Banking Sector in India.	15

5	**Central Banking and Monetary Policy** Role of central banks in developed and developing countries; Functions of a central bank; Role and functions of the Reserve Bank of India; methods of credit control: Quantitative- bank rate, repo rate, open market operations, variable reserve ratio and selective methods; Objectives and limitations of monetary policy; NPA's , Recent changes in monetary policy of India.	20
	TOTAL	80

Suggested Readings:

F. S. Mishkin and S. G. Eakins, *Financial Markets and Institutions*, PearsonEducation, 6th edition, 2009.
F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, *Foundations of FinancialMarkets andInstitutions*, Pearson Education, 3rd edition, 2009.
M. R. Baye and D. W. Jansen, *Money, Banking and Financial Markets*, AITBS,1996.
Rakesh Mohan, *Growth with Financial Stability- Central Banking in an Emerging*L. M. Bholeand J. Mahukud. *Financial Institutions and Markets*, Tata McGrawHill, 5th edition, 2011.
M. Y. Khan, *Indian Financial System*, Tata McGraw Hill, 7th edition, 2011.
N. Jadhav, *Monetary Policy, Financial Stability and Central Banking in India*.
Macmillan, 2006.
R.B.I. – *Report of the Working Group: Money Supply Analytics and Methodology ofCompilation*, 1998.
R.B.I. Bulletin, Annual Report and Report on Currency and Finance (latest).

SEMESTER - VIII
MJC -16: ECONOMICS OF HEALTH AND EDUCATION
(Credit - 4)

Course Outcomes

After the completion of the course, the student will be able to:
C01: Understand the relevance of health and education in human development
C02: Analyse the microeconomic foundations of health and educational economics
C03: Evaluate the progress of health sector in the country
C04: Assess the issues of Human Resource Development in India

Unit	Topics to be covered	No. of Lectures
1	**Role of Health, Hygiene and Education in Human Resource Development** Importance inpoverty alleviation; health and education outcomes and their relationshipwith macroeconomic performance, Importance of Hygiene	10
2	**Microeconomic Foundations of Health Economics** Demand for health; uncertainty and health insurance market; alternative insurance mechanisms; market failure and rationale forpublic intervention; equity and inequality. Costing, cost effectiveness and cost-benefit analysis; burden of disease.	15
3	**Health Sector in India: An Overview** Health outcomes; health systems; health financing, Mental Health in India: Concept and issues.	10

4	**Education Sector in India: An Overview** Literacy rates, school participation, school quality measures. Rate of return to education: private and social; quality of education;signaling or human capital; theories of discrimination	15
	TOTAL	50

Suggested Readings:

William, Jack, *Principles of Health Economics for Developing Countries*, WorldBank Institute Development Studies, 1999.

World Development Report, *Investing in Health*, the World Bank, 1993.

Ronald G., Ehrenberg and Robert S., Smith, *Modern Labor Economics: Theory and PublicPolicy*, Addison Wesley, 2005.

SEMESTER - III
MIC- 3: INTRODUCTORY MACROECONOMICS
(Credit: 3)

After the completion of the course, the student will be able to:

CO1: Develop a proper and in- depth understanding of variables dealing with the aggregate economy.

CO2: Analyse the basics of National Income Accounting, which will help them to describe andanalyze the economy in quantitative terms.

CO3: Understand the major issues and concerns of the economy such as unemployment, inflation, poverty economic growth.

Unit	Topics to be covered	No. of Lectures
1	**Introduction to Macroeconomics and National Income Accounting** The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues, the Role of Government in Macroeconomics, the components of Macroeconomics, methodology of macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP.	15
2	**Money and Banking** Functions of money; quantity theory of money; Central banking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	15
3	**Classical and Keynesian Systems** Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination , concept of multipliers, Relevance and limitations of Keynesian economics to developing economy	10
	TOTAL	40

Suggested Readings:

1. Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.
2. N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
4. Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.
5. Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition,2011.

SEMESTER - IV
MIC- 4: STATISTICAL METHODS IN ECONOMICS
(Credit: 3)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Learn the Basic Concepts of statistics and its application

CO2: Understand concept of probability.

CO3: Understand Elementary concepts of sampling.
CO4: Understand the basic idea of index numbers.

Unit	Topics to be covered	No. of Lectures
1	**Basic Statistics** Measures of Central Tendency: Mean, Median Mode, Geometric Mean, Harmonic Mean; Measures of Dispersion: Mean Deviation, Quartile Deviation, Standard Deviation;Moments, Skewness, Kurtosis, Gini coefficient , Lorenz Curve, Bivariate Frequency Distribution: Simple Correlation and Linear Regression Analysis	20
2	**Index Number** Concept of Index Number, Laspeyre's, Paasche's and Fisher's Ideal Index Number, Tests for Ideal Index Number, Problems in Construction of Index Number, Applications: Cost of living index Number	10
3	**Concept of Probability and Sampling:** Sample space and events; probability axioms and properties; Concept of random variable, Addition and Multiplication Theorem, Concept of Sampling, Types of Sampling Methods, Concept and properties of an estimator.	10
	TOTAL	40

Suggested Readings:

1. Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.
2. John E. Freund, Mathematical Statistics, Prentice Hall, 1992.
3. Gupta S.P, Statistical Methods, S. Chand & Sons, New Delhi.
4. Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.
5. Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.

SEMESTER- V
MIC- 5: INTERMEDIATE MICROECONOMICS 1
(Credit: 3)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Frame their budget according to their income and price constraint.
CO2: Develop knowledge about how the prices are determined in different forms of market.
CO3: Apply Demand and Supply Analysis to responses to Market.
CO4: Deal with the concept of Consumer Behavior.

Unit	Topics to be covered	No. of Lectures
1	**Ordinal Utility Analysis:** a. Concept, Assumptions, Tools: Indifference curve and Budget line, income effect, substitution effect and price effect for normal and inferior goods, Slutsky Equation and Hicksian Substitution Effect; b. Revealed preference theory	15
2	**Production, Costs and Revenue Analysis** a. Production with one and more variable inputs; law of variable proportion, returns to scale, optimum factor combination, Production possibility curve, elasticity of substitution b. Traditional and Modern approaches to cost Behaviour of Cost and Revenue curves under different market conditions , Internal and external economies and diseconomies of scale, c. Concept, assumptions and characteristics of different types of Production function: Linear and Cobb-Douglas Production Function,	15
3	**Perfect Competition and Monopoly** a. Review of perfect competition: features, price and output determination under perfect competition in short and long run, total and marginal approach. b. Monopoly: features, conditions for existence of monopoly, price and output determination under monopoly, price discrimination	10
	TOTAL	40

Suggested Readings:

1. Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
2. C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.
3. B. Douglas Bernheim and Michael D. Whinston, *Microeconomics*, Tata McGraw- Hill (India), 2009.

SEMESTER - V
MIC-6: INTERMEDIATE MACROECONOMICS
(Credit – 3)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop a proper and in-depth understanding of variables dealing with the Macroeconomics.

CO2: Understand the basics of closed and open economy models.

CO3: Understand issues and concerns of the economy such as unemployment and inflation.

CO4: Understand the concept and function of Money and Determination of Money supply and demand.

Unit	Topics to be covered	No. of Lectures
1	**The Closed Economy Macroeconomics** Classical Macroeconomics: Money, prices and interest, Keynesiansystem: money, interest and income, IS-LM model, policy effects, Analysis of Business cycle: phases of business cycle, theories of business cycle: Hawtrey, Keynes, Samuelson, and Hicks.	20
2	**Inflation, Unemployment and Expectations** Inflation its types and causes; cost of inflation. Unemployment: concept, types, measurement and effect on different sections of society, Philips curve, policy implications.	10
3	**The Open Economy Macroeconomics** Short-run open economy models; Mundell-Fleming Model, Exchange Rate concept, types and theories of determination.	10
	TOTAL	40

Suggested Readings:

1. Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.
2. N. Gregory Mankiw. *Macroeconomics,* Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
4. Steven M. Sheffrin, *Rational Expectations*, Cambridge University Press, 2nd edition, 1996.
5. Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th Edition,2011.
6. Errol D'Souza, *Macroeconomics*, Pearson Education, 2009
7. Paul R. Krugman, Maurice Obstfeld and Marc Melitz, *International Economics*, PearsonEducation Asia, 9th edition, 2012.

SEMESTER - VI
MIC - 7: INDIAN ECONOMY
(Credit - 3)

After the completion of the course; the student will be able to:
CO1: Examine sector-specific policies and their impact in shaping trends in key economic indicators inIndia.
CO2: Evaluate the Indian Empirical evidence
CO3: Analyze the rapid Economic changes taking place in the economy
CO4: Learn about the role of agriculture and industry in Economic development and their performancein Indian perspective.

Unit	Topics to be covered	No. of Lectures
1	**Economic Development since Independence** Characteristics of Indian Economy, Main features of the economy at independence; Structural change, growth and development under different policy regimes—goals, constraints, institutions and policy framework; an assessment of sectoral performance, sustainability and regional contrasts; structural change, trends of savings and investment.	10

2	**Indian Agriculture, Industry and Service Sector** Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Land Reforms; Green and Rainbow Revolution; Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, Services Sector: growth and Present status, Foreign Trade in India - Composition and Direction	20
3	**Bihar Economy:** Demographic features, Poverty and Unemployment, Growth and problems of Farm sector, Development of Industrial sector, Major policy initiatives for development.	10
	TOTAL	40

Suggested Readings:

1. Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8,I in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development andParticipation*, Oxford University Press.
2. Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.
3. Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27.*
4. Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra Athukorala, editor, *The Rise of Asia*, Routledge.

SEMESTER - VI
MIC 8: INTERMEDIATE MICROECONOMICS 2
(Credit - 3)

After the completion of the course, the student will be able to:

CO1: Differentiate between Partial and General Equilibrium
CO2: Analyse the behavior patterns of different economic agents and market situations
CO3: Understand Imperfect Competition and Distribution theory
CO4: Learn about Externalities and Market Failure

Unit	Topics to be covered	No. of Lectures
1	**Imperfect Markets** Imperfect markets: Common features, price and output determination in monopolistic competition, various approaches to price and output determination under Oligopoly-classical models of oligopoly: duopoly Cournot Model, collusive oligopoly: cartel and price leadership, basic idea of kinked demand curve.	15

2	**Distribution Theory (Pricing of Factors)** Concepts of factor productivity, Marginal Revenue Product (MRP) and Value of Marginal Product (VMP), pricing of factors in perfect and imperfect market, Marginal productivity theory of distribution, Euler's theorem, theories of rent, interest and profit.	10
3	**General Equilibrium, Efficiency and Welfare** Concept of Partial and General Equilibrium, Welfare concept, Walrasian General Equilibrium, concept and conditions of Pareto Optimality, perfect competition and Pareto Optimality, Externalities in production and consumption, Public Goods, Concept and causes of market failure, correction of market failure.	15
	TOTAL	40

Suggested Readings:

1. *Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.*
2. *C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010.*
3. *B. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw- Hill (India), 2009.*
4. *A. Ahsan, C. Pages and T. Roy, 2008, -Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins, Consequences and the Way Forward, in D. Mazumdar and S. Sarkar,editors, Globalization, Labour Marketsand Inequality in India, Routledge.*
5. *Dipak Mazumdar and Sandeep Sarkar, 2009, -The Employment Problem in India and the Phenomenon of the Missing Middle, Indian Journal of Labour Economics.*
6. *J. Dennis Rajakumar, 2011, -Size and Growth of Private Corporate Sector in Indian Manufacturing,*
7. *Economic and Political Weekly, April.*

SEMESTER - VII
MIC – 9: PUBLIC FINANCE
(Credit - 4)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the importance of Public finance

CO2: To understand the implications of fiscal policy

CO3: To analyse the trends and composition of public expenditure in India

CO 4: To understand the importance of Fiscal Federalism

Unit	Topics to be covered	No. of Lectures
1.	**Introduction to Public Finance** Public Finance: Meaning, Nature, Scope and Importance; difference between Private and Public Finance; Principle of Maximum Social Advantage; Role of State in Public Finance. Fiscal functions of State: Allocation, Distribution, Economic Growth and Stabilisation.	15

2.	**Sources of Revenue** Taxes, loans, grants and aid – meaning and types, canons/ principles of taxation, problem of justice in taxes, incidence of taxation, taxable capacity; characteristics of Indian tax system.	10
3.	**Public Expenditure and Debt** Principle of Public Expenditure; Principle of Public Debt and its Methods of Redemption; Effects of Public Expenditure on Production and Distribution; Public Debt in India.	10
4.	**Public Finance in India** Sources of Revenue of Central Government ,State Government and Local Bodies; Concept and Types of Budget, Fiscal Deficit, Deficit Financing and Deficit Budget, Financial relation between Central and State; Finance commission; Fiscal Policy.	15
	TOTAL	50

Suggested Readings:

1. *J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.*
2. *H. Rosen, T. Gayer: Public Finance, 9th edition, McGraw-Hill/Irwin, 2009.*
3. *Joseph E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000*
4. *R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill Publications,5th edition, 1989*
5. *Harvey Rosen, Public Finance, McGraw Hill Publications, 7th edition, 2005.*
6. *A. Ghosh and C. Ghosh: Public Finance, PHI Learning, 2014.*
7. *Shankar Acharya, 2005 – Thirty Years of Tax Reform in India, Economic and Political Weekly, May14-20.*
8. *Report of the 14th Finance Commission, 2015-20.*
9. *Economic Survey, Government of India (Latest).*
10. *State Finances: A Study of Budgets, Reserve Bank of India (Latest).*

SEMESTER - VIII
MIC - 10: INTERNATIONAL ECONOMICS
(Credits - 4)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Analyze the issues related to BoP, exchange rates and direction of trade.
CO2: Describe micro-foundations of the various aggregates of International Economics
CO3: Explain different International trade theories
CO4: Learn about different International Institutions and their relevance for Indian Economy.

Unit	Topics to be covered	No. of Lectures
I	**Introduction** Nature and scope of International Economics, trade surpluses and deficits, the economic basis of trade, terms of trade, Gains from trade, Instruments of trade policy and their impact on international trade, trade barriers (quantitative and qualitative): tariffs, subsidies and quotas, free trade vs. protection: case for free trade, case for protection.	15

2	**Theories of International Trade** Absolute and Comparative advantage, Opportunity cost theory, Ricardian and Heckscher-Ohlin Model, Leontief's Paradox, Immiserising Growth and the Transfer Problem.	10
3	**Exchange rate and BoP** Concept and types of Exchange rate, Theories of Exchange rate determination, fixed vs. flexible exchange rate, factors affecting exchange rate, impact of exchange rate on economy, market for foreign exchange, Review of Balance of Payment (BoP) accounting, components of BoP: current and capital account, Disequilibrium of BoP: causes and methods of correction, Adjustment mechanisms, Internal and external balance, Elasticity, Absorption and Monetary Approach to BoP.	18
4	**International Institutions:** WTO, IMF, World Bank, ADB, New Development Bank: Objectives, principles and functions.	7
	TOTAL	50

Suggested Readings:

1. Paul Krugman, Maurice Obstfeld, and Marc Melitz, *International Economics: Theory and Policy*,Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.
2. Dominick Salvatore, *International Economics: Trade and Finance*, John WileyInternational Student Edition, 10th edition, 2011.

SEMESTER – I
MDC- 1: INTRODUCTORY MICROECONOMICS
(Credit: 3)

After the completion of the course, the students will be able to:
CO1: Use microeconomic concepts such as saving and investment in their real life situations.
CO2: Understand the profit making techniques used by different businesses or firms
CO3: Grasp the basic concepts of Microeconomics such as Laws of Demand, Supply and Elasticity
CO4: Apply Indifference Curve Analysis in Deriving Demand curve Income and Substitution Curve

Unit	Topics to be covered	No. of Lectures
1	**Exploring the subject matter of Economics:** Definition of Economics, Need, Scope and Methods of Economics, Nature and subject matter of Economics, Problem of scarcity and choice, Central Problems of Economy.	**10**
2	**Supply and Demand:** (a) concept and types of demand, Determinants of individual demand/supply; demand and demand function, theory of demand and law of demand and supply, exceptions to law of demand, demand/ supply schedule and demand/supply curve; demand for complementary and substitute goods, market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together, elasticity of demand and supply , determinants, measurement and application, static and dynamic demand, consumer surplus	**18**
3	**The Theory of Consumer Behaviour:** Cardinal approach: Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility, Consumer's Equilibrium. Ordinal Approach: Indifference Curve- meaning and properties, Consumer's Equilibrium with the help of Indifference curve.	**12**
	TOTAL	**40**

Suggested Readings:
1. Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc., 8 th Edition, 2007.
2. N. Gregory Mankiw, Economics: Principles and Applications, India edition by South-western, a part of Cengage Learning, Cengage Learning India Private Limited, 4 th edition, 2007.
3. Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norton & Company, Inc.,New York, International Student Edition, 4 th Edition, 2007.

SEMESTER - II
MDC- 2: INTRODUCTORY MACROECONOMICS
(Credit: 3)

After the completion of the course, the student will be able to:

CO1: Develop a proper and in- depth understanding of variables dealing with the aggregate economy.

CO2: Analyse the basics of National Income Accounting, which will help them to describe andanalyze the economy in quantitative terms.

CO3: Understand the major issues and concerns of the economy such as unemployment, inflation, poverty economic growth.

CO4: Describe Functions of Money and Determination of Money Supply and Demand

Unit	Topics to be covered	No. of Lectures

1	**Introduction to Macroeconomics and National Income Accounting** The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues ,the Role of Government in Macroeconomics ,the components of Macroeconomics ,the methodology to macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP	15
2	**Money and Banking** Functions of money; quantity theory of money; Central banking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	15
3	**The Closed Economy in the Short Run** Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination , concept of multipliers, Relevance and limitations of Keynesian economics to developing economy	10
	TOTAL	40

Suggested Readings:

1. Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.
2. N. Gregory Mankiw. *Macroeconomics*. Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
4. Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.
5. Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition,2011.

SEMESTER - III
MDC - 3: INDIAN ECONOMY
(Credit - 3)

After the completion of the course, the student will be able to:
CO1: Examine sector-specific policies and their impact in shaping trends in key economic indicators inIndia.
CO2: Evaluate the Indian Empirical evidence
CO3: Analyze the rapid Economic changes taking place in the economy
CO4: Learn about the role of agriculture and industry in Economic development and their performancein Indian perspective.

Unit	Topics to be covered	No. of Lectures
1	**Economic Development since Independence** Characteristics of Indian Economy, Main features of the economy at independence; Structural change, growth and development under different policy regimes—goals, constraints, institutions and policy framework; an assessment of sectoral performance, sustainability and regional contrasts; structural change, trends of savings and investment.	10
2	**Indian Agriculture, Industry and Service Sector** Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Land Reforms; Green and Rainbow Revolution; Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, Services Sector: growth and Present status, Foreign Trade in India - Composition and Direction	20
3	**Bihar Economy:** Demographic features, Poverty and Unemployment, Growth and problems of Farm sector, Development of Industrial sector, Major policy initiatives for development.	10
	TOTAL	40

Suggested Readings:

1. Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8,I in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development andParticipation*, Oxford University Press.
2. Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.
3. Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27*.
4. Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra Athukorala, editor, *The Rise of Asia*, Routledge.

Marketing

Subject Experts (Commerce)

Members of Course Frame Work Committee Four Year

Degree Programme under CBCS Pattern in the light of NEP 2020 at Raj Bhawan, Patna

Sl.No.	Experts Name	University	Email	Mobile No.	Signature
1	Prof. (Dr.) Lakshman Singh, Professor and Dean	Jai Prakasyh University, Chapra	dr.lakshmansingh1960@gmail.com	9430298722	19.9.23
2	Prof. Prakash Kr. Verma Professor & Head	Patliputra Univ., Patna	pk1960v@gmail.com	9473030650	19-9-23
3	Prof. N. K. Jha Professor & Head	Patna Univ., Patna	nkjhacommercepu@gmail.com	9431049264	19.09.2023
4	Prof. Sanjay Kumar Singh Professor & Head	VKSU, Ara	pdsvksu64@gmail.com	9431661369	19/09/23
5	Prof. Syed Alay Mujtaba Professor & Head	BRABU, Muzaffarpur	syedalaymujtaba111@gmail.com	9430805392	19.9.23
6	Prof. R. K. Srivastava Professor	BRABU, Muzaffarpur	rk5srivastav@gmail.com	8789208492	19.9.23
7	Dr. S. B. Lall Professor	Patna Univ., Patna	lallshankblanshan@gmail.com	8218090043	19/9/2023
8	Dr.Divakar Jha Associate Professor	LNMU, Darbhanga	jhadivakar69@gmail.com	6206112610	19/9/23
9	Prof. Ashutosh Kumar Dutta Professor	TMBU, Bhagalpur	duttaashutosh44@gmail.com	9431412830	19.09.23
10	Dr. Raj Manohar Kumar Associate Professor	Munger Univ., Munger	rajmanoharkumar240766@gmial.com	9507556456	19.09.23
11	Dr. Binod Kumar Associate Professor	RLSY Collegel Betia, BRABU, Muzaffarpur	drbinod1985@gmail.com	99354626371	19/09/23
12	Shri Dhirendra Kumar*	J.L.N.M. College Nawahi Sursand, BRABU, Muzaffarpur	prof.dhirendrakumar@gmail.com	8969119629	19-09-23
13	Dr. Mahajabeen Parveen Assistant Professor	BRABU, Muzaffarpur	mahjabeenmahfooz@gmail.com	9973977640	19-09-23
14	Dr. Lavanya Nupur Assistant Professor	BRABU, Muzaffarpur	lavanyanupur1988@gmail.com	6200603250	19/9/23

University of Bihar

Faculty of Commerce

4 year Degree Course under

CHOICE BASED CREDIT SYSTEM

Semester Scheme with Multiple Entry and Exit Option for

Under Graduate Course as per NEP 2020

Syllabus for

B.COM- MARKETING

GROUP-B

Session -2023-27 onwards

Syllabus for four years B.Com in Marketing

Subject under CBCS system and Semester System as per UGC Regulations

(Curriculum and Credit framework for undergraduate programme)

(Group-B) Marketing

(A) Major Core Courses

Sl. No.	Sem	Type of Course	Course Code	Name ofCourse	Credits	Marks CIA+ESE 30+70
1.	I	MJC-1	BCMK/MJC-1	Principles and Functions of Management	6	100
2.	II	MJC-2	BCMK/MJC-2	Principles and Functions of Marketing	6	100
3.	III	MJC-3	BCMK/MJC-3	Sales and Distribution Management	5	100
4.	III	MJC-4	BCMK/MJC-4	Advertising Management	4	100
5.	IV	MJC-5	BCMK/MJC-5	Tourism Marketing	5	100
6.	IV	MJC-6	BCMK/MJC-6	Rural Marketing in India	5	100
7.	IV	MJC-7	BCMK/MJC-7	Service Marketing	5	100
8.	V	MJC-8	BCMK/MJC-8	Consumer Behaviour	5	100
9.	V	MJC-9	BCMK/MJC-9	Digital Marketing	5	100
10.	VI	MJC-10	BCMK/MJC-10	Event Management	4	100
11.	VI	MJC-11	BCMK/MJC-11	International Marketing	5	100
12.	VI	MJC-12	BCMK/MJC-12	Business Economics	5	100
13.	VII	MJC-13	BCMK/MJC-13	Business Law	5	100
14.	VII	MJC-14	BCMK/MJC-14	Research Methodology	5	100
15.	VII	MJC-15	BCMK/MJC-15	Company Law	6	100
16.	VIII	MJC-16	BCMK/MJC-16	Business Communication	4	100

Sub Total = 80

Note:

MJC – Major Course

BCMK- B.Com in Marketing

CIA- Continous Internal Assessment

ESE- End Semester Examination

(B) Minor Courses MIC to be offered by the Department for students of other Departments of Commerce

Sl. No.	Sem	Type of Course	Course Code	Name of Course	Credits	Marks CIA+ESE 30+70
1.	I	MIC-1	BCMK/MIC-1	Principles & Functions of Marketing	3	100
2.	II	MIC-2	BCMK/MIC-2	Advertising Management	3	100
3.	III	MIC-3	BCMK/MIC-3	Sales & Distribution Management	3	100
4.	IV	MIC-4	BCMK/MIC-4	Consumer Behaviour	3	100
5.	V	MIC-5	BCMK/MIC-5	Rural Marketing in India	3	100
6.	V	MIC-6	BCMK/MIC-6	Tourism Marketing	3	100
7.	VI	MIC-7	BCMK/MIC-7	Service Marketing	3	100
8.	VI	MIC-8	BCMK/MIC-8	Digital Marketing	3	100
9.	VII	MIC-9	BCMK/MIC-9	Event Management	4	100
10.	VIII	MIC-10	BCMK/MIC-10	International Marketing	4	100

Sub Total = 32

Note: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department concerned may also decide practical courses.

(C) Multidisciplinary Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	To be selected from the basket	3	100
2.	II	MDC-2	To be selected from the basket	3	100
3.	III	MDC-3	To be selected from the basket	3	100

Sub Total = 09

(D) Ability Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	AEC-1	MIL	2	100
2.	II	AEC-2	Environmental Science	2	100
3.	III	AEC-3	Disaster Risk Management	2	100
4.	IV	AEC-4	NCC/NSS/NGOs/Social Service/ Scout and Guide/Sports	2	100

Sub Total = 08

(E) Skill Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	SEC-1	To be selected from the basket	3	100
2.	II	SEC-2	To be selected from the basket	3	100
3.	III	SEC-3	To be selected from the basket	3	100

Sub Total = 09

(F) Value Added Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	VAC-1	To be selected from the basket	3	100
2.	II	VAC-2	To be selected from the basket	3	100

Sub Total = 06

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	v	INT-1	Summer Internship	4	100

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	VIII	RP-1	Research/Dissertation	12	100

Grand Total = 160 Credits

(G) Basket for Multidisciplinary Courses (MDC)

To be decided by Respective Department

(H) Basket for Skill Enhancement Courses (SEC)

See at the end of structure (this booklet)

(I) Basket for Value Added Courses (VAC)

See at the end of structure (this booklet)

GROUP-B: MARKETING

SEMESTER-I

BCMK/MJC-1: PRINCIPLES AND FUNCTIONS OF MANAGEMENT

Objective:

To acquaint the learners with the basic concepts of business, different forms of business organisation, basics of management concepts and the different management functions.

Learning Outcomes:

After completion of the course, the learners will be able to:

1. Know the Principles of Management and the different levels at which decisions are taken by the Managements
2. Identify and explain Managerial skills used in business;
3. Analyse the concept of Delegation of Authority, coordination, and control;
4. Assess the importance of effective communication in management
5. Validate the role of Motivation and Leadership in modern day management

COURSE CONTENTS:

BCMK/MJC-1: PRINCIPLES AND FUNCTIONS OF MANAGEMENT (Theory: 06 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Principles of Management** Management - Meaning and Characteristics; Fayol's 14 Principles of Management; Levels of Management Importance of Management, Arts and Science of Management– Skills of Management; Scientific Management - meaning, objectives, relevance and criticism.	10
2	**Functions of Management: Planning and Organizing** Planning- Meaning, Characteristics, Types of Plans, Advantages and Disadvantages – Approaches to Planning - Management by Objectives (MBO) - Steps in MBO - Benefits –Weaknesses; Organizing - Process of Organizing; Principles of Organisation - Formal and Informal Organisations – Line, Staff Organisations, Line and Staff Conflicts. Functional Organisation; Span of Management - Meaning - Determining Span - Factors influencing the Span of Supervision.	10
3	**Functions of Management: Authority and Coordination** Meaning of Authority, Power, responsibility and accountability - Delegation of Authority - Decentralization of Authority; Definition, importance, process, and principles of Coordination techniques of Effective Coordination	10
4	**Functions of Management: Control and Communication** Control-Meaning, Relationship between planning and control, Steps in Control – Types (post, current, and pre-control). Requirements for effective control.Communication-purpose, process, formal and informal communication, barriers to effective communication and overcoming these	15

	barriers;	
5	**Functions of Management: Motivation and Leadership** Motivation-Meaning, importance, major motivation theories- Maslow's need hierarchy theory, Herzberg's two-factors theory, Vroom's Expectation Theory, extrinsic and intrinsic motivation; Leadership- meaning, theories, essential qualities, global leadership attributes, practicing leadership	**15**
	TOTAL	**60**

Suggested Readings:

1. F. C. Sharma, Business Organisation,SBPD Publications, Agra
2. M.C. Shukla, Business Organisation, S. Chand Publications, New Delhi.
3. Y. P. Verma, Business Organisation, Sahitya Bhawan Publications, Agra.
4. Basu, C. R. (1998). Business Organization and Management. New Delhi: McGraw Hill Publishing India.
5. Chhabra, T. N. (2011). Business Organization and Management. New Delhi: Sun India Publications.
6. Gupta, C. B. (2011). Modern Business Organization. New Delhi: Mayur Paperbacks.
7. Kaul, V. K. (2012). Business Organization and Management, Text and Cases. New Delhi: Pearson Education.
8. Koontz, H., & Weihrich, H. (2008). Essentials of Management. New York: McGraw Hill Education.
9. Singh, B. P., & Singh, A. K. (2002). Essentials of Management. New Delhi: Excel Books.

GROUP-B: MARKETING

SEMESTER-II

BCMK/MJC-2 : PRINCIPLES AND FUNCTIONS OF MARKETING

Objective:
To acquaint the learners about the Principles and practices as followed in Marketing of the Products and Services at the National and International level

Learning Outcomes

After the completion of the course, the student will be able to:

1. acquaint with the concept of marketing and its functions in the present context.
2. gain knowledge about marketing strategies.
3. know the different concepts of marketing information system and consumer behavior.

BCMK/MJC-2 : PRINCIPLES AND FUNCTIONS OF MARKETING (Theory: 06 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Fundamentals of Marketing**: Meaning, Concept, Importance, Functions of Marketing. Marketing and Selling, Modern Marketing Concept, Relationship Marketing.	10
2	**Market Segmentation**: Meaning, Objectives and Importance of Market Segmentation. Basis of Market Segmentation, Marketing Strategy-Segmentation, Targeting and Positioning.	12
3	**Marketing Mix**: Meaning, Elements of Marketing mix Product, Price, Promotion and Place. New Product Development Process. Reasons for failure of new product development.	16
4	**Marketing Environment**: Meaning, Importance of Marketing Environment. Micro and Macro Environment and their types. Methods of Sales fore casting.	12
5	**Marketing Information System**: Meaning, Concept and importance. Types and Components of Marketing information system. Consumer behaviour, factors influencing consumer behavior, Buying Decision Process.	10
	Sub Total	60

Suggested Readings :

1. Philip Kolter- Marketing Management
2. RSN Pillai- Modern Marketing, Chand Publication, N.Delhi.
3. Ramaswami- Marketing Management-Mc. Graw Hill
4. C.N. Sontakki-Marketing Management- Kalyani Publication
5. Arun Kumar Marketing Management-Vikas Publication. & N. Minakshi-

GROUP-B: MARKETING

SEMESTER-III

BCMK/MJC-3: SALES AND DISTRIBUTION MANAGEMENT

Objective:

It aims to help management students understand the fundamentals of Sales management and Distribution management so as to recognize the need of Business and to have the effective Sales and Distribution strategies for the satisfaction of channel partners.

Learning Outcomes:

After completion of the course, the learners will be able to:

- Recognizeand demonstrate the significant responsibilities of sales person as key individual.
- Understand the basic concepts and techniques of selling and their applications to managerial decision makings in the field

COURSE CONTENTS:

BCMK/MJC-3: SALES AND DISTRIBUTION MANAGEMENT (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Evolution of Sales Management**: Nature and Role of Sales Management. Sales Strategies: Relationship Strategy: Hard Sale Vs. Soft Sale Strategy, Setting Personal selling objective.	10
2	**Sales Training Program:** Role of a trainer: Training Method: Designing sales training program, Motivating Sales Personnel, Financial Compensation Methods, Nonfinancial Methods. Sales Meeting, Sales Contests: Managerial Evaluation of Contest	10
3	**Sales Organization**: Sole Organization Concepts Structures Procedure: Types; Methods. Territories Size: Allocation: Designing Allocating Sales Efforts, Sales Information System Planning: Reports, Evaluation of Sales Force. Process	10
4	**Marketing Channel-** Importance, Structure: Flow, Wholesaling: Functions: Classification;	10

	Key tanks. Retailing, Organized Retail in India. Types of Resailer. Role of Retailer E-Tailing. Market Logistics Scope: Inventory Management: Warehousing, Transponation	
5	**Designing Channel System:** Channel Design, Channel Planning Selecting Channel Partners: Change Training Motivating: Evaluating Channel Management Use of Power: Channel Confet Channe Information System: Elements: Purpose, Channel Performance Evaluation. International Channels: Mode of Entry Decision	**10**
	TOTAL	**50**

Suggested Readings:

1. Dr. Mrinal Kumar; Sales and Distribution Management; Shiksha Sagar Publishers & Distributors
2. Dr. F.C. Sharma; Sales and Distribution Management; SBPD POublications, Agra
3. Havaldar, Krishna K: Sales and Distribution Management, Tata McGraw Hill
4. Gupta S. L.: Sales & Distribution Management: Test & Cases in Indian Perspectives. Excel Books
5. Still, Kundiff, Govoni, Sales and Distribution Management, PHI,
6. L. Gorchels. C. West. E. J. Marien. The Managers Guide to Distribution Channels, McGraw Hills:

GROUP-B: MARKETING

SEMESTER-IV

BCMK/MJC-4: ADVERTISING MANAGEMENT

Objective:

The objective of this subject is to make the students familiar with Advertising Medium of Advertising and its Agency, to prepare the students to manage the advertising management

Learning Outcomes:

After completion of the course, the learners will be able to:

- Familiarize with advertising concepts.
- Identify effective media choice for advertising
- Develop ads for different media
- Measure the advertising effectiveness
- Analyse the role of advertising agency

COURSE CONTENTS:

BCMK/MJC-4: ADVERTISING MANAGEMENT (Theory: 04 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction:** Communication Process, Advertising as a tool of communication; Meaning, nature and importance of advertising: Types of advertising, Advertising objectives.	08
2	**Media Decisions:** Major media types and their characteristics, Internet as an advertising media- merits and demerit Factors influencing media choice; media selection, media scheduling. Advertising through th Internet-media devices.	08
3	**Message Development:** Advertising appeals, Advertising copy and elements, Essential of Message Developme Preparing ads for different Media-Video Advertising: Television & YouTube, Audio Chann Radio & Podcast Advertising. Newspapers, Print & Digital Publications (Magazines),Out-Of-Ho Advertising, Social Media:	08
4	**Advertising Agency:** Advertising Agency: Role and types of advertising agencies, Selection of advertisingagency; S and Ethical aspects of advertising in India.	08
5	**Role of Advertisement:** Role of Advertisement in business and society, Advertising Standard Council of India(ASCI) : Practical Component (Credit/Hours)	08
	TOTAL	40

Suggested Readings:

1. Dr. Mrinal Kumar; Advertising Management; Shiksha Sagar Publishers and Distributors, Agra
2. Dr.F.C.Sharma; Advertising Management; SBPD Publlications, Agra
3. Advertising Management, Dr. Varma & Aggarwal, King Books
4. Principles of Marketing, Kotler & Armstrong, Prentice-Hall of India
5. Advertising: An Introduction Text, S. A. Chunawalla, Himalayan Publishing House
6. Advertising Principles and Practice, Wells Burnett Moriarty, PHI
7. Foundations of Advertising, S.A. Chunawalla, KC Sethia , Himalayan Publishing House

GROUP-B: MARKETING

SEMESTER-IV

BCMK/MJC-5: TOURISM MARKETING

Objective:

- To enhance the students with the concept of marketing and its role in the promotion of tourism products
- To make the students aware of various tour packages and the use of technology in marketing
- Familiarize the students with the various marketing strategies adopted by major tour operators

Learning Outcomes:

- Students get an overview of the concept of marketing and its role in the promotion of tourism products
- Students are exposed to various tour packages and the use of technology in marketing
- Students obtain knowledge about various marketing strategies adopted by major tour operators

COURSE CONTENTS:

BCMK/MJC-5: TOURISM MARKETING (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Understanding Marketing and Marketing Process:** Marketing Concepts, Nature and Scope of Marketing, Marketing Mix, Marketing Environment, Strategic Planning and Marketing Process, Organizing and Implementing Marketing in the Organization. Services Marketing: Concept, Definition, Characteristics with Special Emphasis on Tourism Services.	10
2	**Developing Marketing Opportunities and Strategies:** Marketing Information Systems and Marketing Research, Consumer Markets and Consumer Behaviour, Business Markets and Buyer Behaviour, Market Segmentation - Targeting and Positioning for competitive Advantage.	10
3	**Developing the Tourism Marketing Mix**: Managing the Product/Service, Product Decisions- Product Line, Product Mix, Product Life Cycle, New Product Development, Branding and Packaging Decisions, Pricing Products Pricing Considerations and Approaches. Pricing Strategies and Methods.	10
4	**Distribution Channel and Logistics Management** : Channel Selection, Cooperation and conflict Management, Promotion Decision, Promotion Mix: Advertising, Sales Promotion,Selling & Publicity; Additional P's of tourism services Personal	10

5	**Issues in Marketing:** Global Marketing, Direct Marketing, Marketing on the Web, Green Marketing, Social Responsibility and marketing Ethics, Consumerism and Legal Issues.	10
	TOTAL	50

Suggested Readings:

1. Dr. F.C.Sharma; Tourism Marketing; SBPD publishers, Agra
2. Dr. Mrinal Kumar; Tourism Marketing; Shiksha Sagar Publishers and Distributors, Agra
3. . Havaldar, Krishna K: Sales and Distribution Management, Tata McGraw Hill
4. Gupta S. L.: Sales & Distribution Management: Test & Cases in Indian Perspectives. Excel Books
5. Still, Kundiff, Govoni, Sales and Distribution Management, PHI,
6. L. Gorchels. C. West. E. J. Marien. The Managers Guide to Distribution Channels, McGraw Hills:
7. Russell W. McCalley, Marketing Channel Management: People, Products,
8. Programs, and Markets, Greenwood Publishing Group

GROUP-B: MARKETING

SEMESTER-IV

BCMK/MJC-6: RURAL MARKETING IN INDIA

Objective:

- To develop knowledge among students about importance of the rural sectors inmarketing and the provide solutions to the challenges faced by managers in rural marketing
- To apply tools and techniques to promote and distribute the products in rural and Practices
- To provide solutions to handle the problems in Agricultural Marketing

Learning Outcomes:

After completion of the course, the learners will be able to:

- Understand how rural marketing is different from urban marketing
- Clearly understand rural marketing strategies to be adopted.
- Illustrate the importance of CRM (Consumer Relationship Marketing) in service marketing
- To equip the students with the tools and techniques of rural which will help them to take distribution channels and logistics decisions in rural markets
- To prepare the students as a professionally qualified Marketing Managers in rural sectors

COURSE CONTENTS:

BCMK/MJC-6: RURAL MARKETING IN INDIA (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Rural Marketing**: Rural Marketing - Concept. Nature and Scope, Importance, Rural Vs Urban Marketing Rural Marketing Environment, Emerging Rural Markets After Globalisation	10
2	**Rural Consumer:** Rural Consumer Characteristics, Attitudes and Behaviour, Buying Patterns and influences. Segmenting Rural Markets.	10
3	**Rural Marketing Strategies:** Rural Marketing Strategies Product Planning for Rural Markets, Quality and Size, Pricing Decisions, Packaging and Branding Decisions.	10
4	**Promotion and Distribution in Rural markets:** Promotion and Distribution in Rural markets, Distribution Channels and Logistics in Rural markets.)	10
5	**Input and Output Marketing:** Input and Output Marketing Agricultural Marketing System and Practices, Problems in Agricultural Marketing, Role of government in Marketing of Agricultural Products Cooperative Marketing,	10
	TOTAL	50

Suggested Readings:

1. Dr. Mrinal Kumar; Shiksha Sagar Publishers & Distibutors, Agra
2. Dr. F.C. Sharma; SBPD Publications, Agra
3. Cooperative Marketing in India and Abroad,L.P.Singh, HPH, Bombay
4. Nayyar and Ramaswami, Globalisation and Agricultural Marketing, Rawat Publication, Jaipur
5. Gopal swami TP; Rural marketing, Wheelers Publications, New Delhi

GROUP-B: MARKETING

SEMESTER-IV

BCMK/MJC-7: SERVICE MARKETING

Objective:

- To create awareness among the students about the ever growing importance of the service sectors and the unique challenges faced by managers in marketing the services.
- To make students aware marketing mix of various services and its importance in service sector
- To impart knowledge to the students in understanding specialized field of marketing

Learning Outcomes:

After completion of the course, the learners will be able to:

- Describe the concept of service marketing
- Clearly understand marketing mix strategy to be adopted in marketing the services
- Illustrate the importance of CRM (Consumer Relationship Marketing) in service marketing
- To equip the students with the tools and techniques of marketing of various profit making and non-profit making organizations.
- To prepare the students as a professionally qualified Marketing Managers in service sectors.

COURSE CONTENTS:

BCMK/MJC-7: SERVICE MARKETING (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction-** Importance of Services Sector, Nature and Types of Service, Difference Between Service and Goods, Marketing. Environment for Services Indian Marketing Scenario	**10**
2	**Services Marketing Mix** Need for Expanded Marketing Mix. Product Mix, Promotion Mix, and Distribution Mix of Services, Additional three P's Process, Physical Evidence and Attractions and Management of Marketing people.	**10**
3	**Marketing Segmentation and Selection** Marketing Segmentation and Selection; Service Market Segmentation; Targeting and Positioning	**10**
4	**Marketing of profit Making Service Organizations:** Marketing of profit Making Service Organizations - Bank, Insurance, Hotel and Tourism	**10**

5	**Marketing of Non-Profit Service Organisations:** Marketing of Non-Profit Service Organizations Education, Health and Political Services	**10**
	TOTAL	**50**

Suggested Readings:

1. Dr. F.C.Sharma;SBPD Publications, Agra
2. Dr. Mrinal Kumar; Shiksha Sagar , Publishers & Distributors, Agra
3. Jha S.m, Service Marketing HPH, Mumbai
4. Joseph T.M., Marketing Management; Indian Perspective HPH, Mumbai
5. Venu Gopal & Rahgu; Service Marketing, HPH, Mumbai

GROUP-B: MARKETING

SEMESTER-V

BCMK/MJC-8: CONSUMER BEHAVIOUR

Objective:

Objective of this course on Consumer Behaviour is to present a comprehensive coverage of the subject with examples from the Indian Scenario. This course also challenges students to understand the complexities of consitmer needs and perceptions and translate them into effective Marketing Strategies. The course will be hased on real life case-studies from Indian environment

Learning Outcomes:

After completion of the course, the learners will be able to:

- To explain the basic concept and model of consumer beahaviour
- To analyze the effects of psychological socio-cultural and demographic factors on the consumer decision process with their results
- To define the importance of consumer behaviour for businesses

COURSE CONTENTS:

BCMK/MJC-8: CONSUMER BEHAVIOUR (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Understanding Consumer Behaviour:** Introduction to Consumer Behaviour Consumer Behaviour and the	**10**

	Marketing Concepts: Factors influencing Consumer Behaviour,	
2	**Consumer Decision making process:** Concept of Consumer Decision: Levels of Consumer Decision Making: A Model of Consumer Decision-Making	10
3	**Consumer Motivation**: The concepts of motivation, Maslow's Theory of Motivation: Role of Motives in Guiding Behaviour: Involvement of Consumer	10
4	**Influence of Culture on Consumer Behaviour:** Concept of Culture: The measurement of Culture; Indian Core Values: Cultural aspects of emerging markets	10
5	**Business, Applications to Consumer Behaviour** Consumer Behaviour: The Computer Age- Changing Indian Consumer Behaviour-Drivers of Change. Changing Consumer Trends, Rural Consumer Behaviour, New Consumption Patterns.	10
	TOTAL	50

Suggested Readings:

1. Dr. F.C Sharma; SBPD Publications, Agra
2. Dr. Mrinal Kumar; Shiksha Sagar Publishers & Distributors, Agra.
3. D. L. Leidon. J. Albert Della Bitta Consumer Behaviour, Concepts and Applications. Tata McGraw Hill Publishing Company Limited
4. Hawkins, H. J. Best, and K. A Coney: Comumer Behaviour Building Marketing Strategy, Tata McGraw-Hill Publishing Company Limited
5. FR. Kardes Consumer Behaviour and Managerial Decision Making, Prentice Hall of India Private Limited
6. Henry A. Consumer Behaviour and Marketing Action, Thomson Asia Pte Ltd
7. K. Srivastava, S. Khandai Consumer Behaviour in Indian Context Galgotia Publishing Compa
8. L. G. Schiffman, L L Kamuk. & S. R. Kumar, Consumer Behaviour, Pearson Education Inc
9. M. Evans, A, Jamal, & G. Foxall: Consumer Behaviour, John Wiley & Son LTD

GROUP-B: MARKETING

SEMESTER-V

BCMK/MJC-9: DIGITAL MARKETING

Objective:

To create awareness on the concepts of Digital Marketing and its

Impact on Modern Business

Learning Outcomes:

After completion of the course, the learners will be able to:

- To gain knowledge on Digital Marketing, Email marketing and Content marketing
- To understand Search Engine Optimization tools and techniques To gain skills on creation of Google Ad Words & Google AdSense
- To gain knowledge on Social Media Marketing and Web Analytics
- To gain knowledge on Youtube Advertising & Conversions

COURSE CONTENTS:

BCMK/MJC-9: DIGITAL MARKETING (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Digital Marketing:** Introduction to Digital Marketing: Meaning and Definition of Digital Marketing. Need of Digital Marketing, Digital Marketing Platforms, Email Marketing Importance of email marketing, email Marketing platforms.	10
2	**Search Engine Optimization (SEO):** SEO Importance and Its Growth in recent years, Ecosystem of a search Engine, SEO Tools: Google Webmaster Tools	05
3	**Social Media Marketing (SMM) & Web Analytics:** Social Media Marketing (SMM) Facebook Marketing, Twitter Marketing, Linkedin Marketing, Google plus Marketing. YouTube Marketing, Pinterest Marketing, Snapchat Marketing, Instagram Marketing. Social Media Automation Tools, Social Media Ad Specs	15
4	**Youtube Advertising (Video Ads) & Conversions**: Youtube Advertising (Video Ads): Youtube advertising, Creating youtube campaigns. Choose the audience for video ads. Instream ads. Invideo ads. In-search ads, In-display ads.	10
5	**Web Analysis:** Analysing the behaviour of visitorsto a websitethrough reportbased on traffic sources, referring sites page view and conversion rates of the website.	10
	TOTAL	50

Suggested Readings:

1. Dr Mili Chaurasia & Dr. MeeraGoyal; SBPD Publications, Agra
2. Dr. Mrinal Kumar; Shiksha Sagar Publishers & Distributors
3. Malik R & Agarwal; R, digital marketing, Bluerose Publishers Pvt Ltd
4. Bhatia, P.S., Fundamentals of Digital Marketing , Pearson
5. Alan Charlesworth; Internet Marketing

GROUP-B: MARKETING

BCMK/MJC-10: EVENT MANAGEMENT

Objective:

To enable students to understand how event is to be managed and know the planning and procedure of event management

Learning Outcomes:

After completion of the course, the learners will be able to:

- Understand the significance of various events
- Demonstrate the ability to organize the event
- Demonstrate the ability to conduct the event.
- Prepare the budget require for conducting an event

COURSE CONTENTS:

BCMK/MJC-10: EVENT MANAGEMENT (Theory: 04 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Event Management:** Event- Meaning Importance and Types of Events, Analysis of Event, Event Management Meaning, Decision Makers and their Roles and Responsibilities, 5 C's of EventManagement	08
2	**Event Management Planning and Procedure**: Establishing of Policies & Procedures, Steps in Planning the event, Principles of Event Management, Permissions and Licenses from Government and Local Authorities	08
3	**Conduct of an Event**: Preparing a Planning Schedule, Steps in Organizing an event. Assigning Responsibility. Event Safety and Security, Conducting the Event-Checklist (Pre during and post event check list), Communication-channels of communications for different types of events,	08
4	**Budgeting of Event:** Preparation of Event Budget-items of expenditure for various events, managing the event budget	08
5	**Reporting**:	08

	Reporting of event organizing the event report, steps in preparing the event report.	
	TOTAL	**40**

Suggested Readings:

1. Stephen, A, Event Management
2. Kilkenny, S. The Complete Guide to successful Event Planning.
3. Wagen, L.V.D, Human Resource Management for Events
4. Hayed, N, Successful Team Management.
5. Mohan, S, Event Management & Public Relations, Enkay Publishing House
6. Goyal, S.K, Event Management & Public Relations, Adhyayan Publisher

GROUP-B: MARKETING

SEMESTER-VI

BCMK/MJC-11: INTERNATIONAL MARKETING

Objective:

- Students will be able to understand the concept and importance of International marketing
- To equip the students with marketing strategies of MNCs.
- To provide an in-depth knowledge of marketing mix to be applied in International Marketing
- To identify export policy and practices in India.

Learning Outcomes:

After completion of the course, the learners will be able to:

- Understand how International marketing strategies are different from domestic marketing strategies
- Will have clear concept of international pricing. factors influencing international price, pricing process and its methods,
- Be equipped with modern tools and techniques of International Marketing
- To prepare the students as a professionally qualified global Marketing Managers

COURSE CONTENTS:

BCMK/MJC-11: INTERNATIONAL MARKETING (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction:** Nature, Definition and Scope of International Marketing. Domestic vs international marketing, marketing strategy of MNCs.	10
2	**Product planning for International Market:** Product planning for International Market Product Mix, Branding, Packaging, quality issues, After Sales Services	10
3	**International Pricing:** International Pricing- Factors influencing international Price, Pricing process and Methods	10
4	**Promotion and Distribution:** Promotion and Distribution Methods of international Promotion, Advertising, International distribution channels:	10
5	**Export policy and practices in India:** Export policy and practices in India- Exim policy. Trends in Indian Foreign Trade, Export pricing. Export Finance.	10
	TOTAL	50

Suggested Readings:

1. Bhattacharya and Varchney: International Marketing Management, sultan chand New Delhi.
2. Kriplani V: International Marketing, prentice Hall, New Delhi.
3. Iceegan W J: Multinational MKTg Mgt, Prentice Hall, New Delhi.
4. AntarRastriya Vipnan, Kothari Jain, Ramesh book Depot.
5. Rathor, Rathor & Jani, International Marketing, HPH Bombay.

GROUP-B: MARKETING

SEMESTER-VI

BCMK/MJC-10: BUSINESS ECONOMICS

Objective:

To acquaint the students with Principles of Economics in Managerial decision making.

Learning Outcomes:

After completion of the course, the learners will be able to:

- Understand the conceptual framework of Economic theories and their application in business decision making.
- Examine how consumers try to maximize their satisfaction by spending on different goods,
- Analyse the relationship between inputs used in production and the resulting outpins and costs.

COURSE CONTENTS:

BCMK/MJC-12 BUSINESS ECONOMICS (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Nature and Scope of Managerial Economics**: Definition of Economics - Important concept of Economics - Basic Economic problem - Relationship between Micro and Macro economics - Managerial Economics - Nature and Scope - Objectives of the Firm.	10
2	**Theory of Consumer behavior**: Managerial Utility Analysis indifference curve and analysis Meaning of Demand - Law of Demand - Types of Demand - Determinants of demand - Elasticity of Demand - Demand Forecasting.	10
3	**Production and Cost Analysis :** Law of returns to scale and Economies of scale - Cost analysis - different cost concepts - Cost - output relationship - Short run and long run - Revenue curves of firms - Supply Analysis.	10
4	**Pricing Methods and Strategies**: Objectives - Factors - General Considerations of Pricing - Methods of pricing - Role of Government - Dual pricing - price Discrimination.	10
5	**Market forms**: Market structure - Basis of Market classification - Output determination - Perfect Competition - Monopoly - Monopolistic Competition - Duopoly - Oligopoly.	10
	TOTAL	50

Suggested Readings:

1.Dr. S. Sankaran – Managerial Economics –Margham Publication
2. Aryamala T – Managerial Economics – Vijay Nicole Imprints Private Limited
3. Mankar: Business Economics, Macmilan Ltd.,
4. Varshney RL and Maheshwari KL - Managerial Economics.
5. Yogesh Maheshwari - Managerial Economics - Prentice-Hall of India.
6. Gupta GS - Managerial Economics.
7. Jinghan M.L. - Micro Economics, Vrinda Publications (P) Ltd. (Theory).

GROUP-B: MARKETING

SEMESTER-VII

SEMESTER III

BCMK/MJC-13: BUSINESS LAW

Objective:

- To provide fundamental knowledge of Business Law and Practices
- To encourage interpretational skills regarding various acts enacted in India
- To make the learners acquainted with the use of negotiable Instruments in Financial transactions.
- To increase an in depth understanding of the provisions of Companies' Act 2013 and LLP Act.

Learning Outcomes:

On the successful completion of the course, students will be able to;

- Understand the provisions of Indian Contract Act 1872 and develop case solving skills through case studies.
- Develop an in depth knowledge of various provisions of Sales of Goods Act ,Negotiable Instruments Act, Companies' Act 2013 and LLP Act 2008.
- Develop skills related to legal counseling of clients.

COURSE CONTENTS:

BCMK/MJC-13: BUSINESS LAW (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Contract Act, 1872:** Concept and Essentials of Contract, Classification of Contract, offer and Acceptance, Capacity of Parties. Consideration,Free Consent, Legality of Objects, Void Agreements, Discharge of Contracts, Indemnity and Guarantee, Contract of Bailment, Pledge, Agency	10
2	**Sale of Goods Act, 1930:** Contract of Sale, Meaning and Difference Between Sale and Agreement to Sell, Conditions and Warranties, Transfer of Property and Goods, Unpaid Seller and His Rights.	10
3	**Negotiable Instrument Act, 1881:** Concept and Features of Negotiable Instrument, Promissory Note, Bills of Exchange and Cheque, Holder and Holder in Due Course, Dishonour and Discharge of Negotiable instrument. Consumer Protection Act, 1986: Salient Features, Definition of consumer, Grievance Redressal Machinery.	10

4	**Limited Liability Partnership (LLP) Act, 2008:** Salient Features of LLP, Difference between LLP and Partnership, LLP and Company, LLP Agreement, Nature of LLP, Partners and Designated Partners, Registration Process of LLP, Conversion to LLP, Winding up and Dissolution.	10
5	**Indian Companies' Act, 2013**: Concept of Company, Formation of Company, Prospectus of Company, Share and Share Capital, Meeting of Company. .	10
	TOTAL	50

Suggested Readings:

1. Dr. Singh & Tiwari; SBPD Publications, Agra
2. Dr. Mrinal Kumar; Shiksha Sagar Publishers & Distributors, Agra
3. R,C.Agarwal; B.K.Singh & Angad Tiwari, SBPD Publications, Agra
4. Kapoor N.D; Elements of Mercentile Law
5. Sen & Gupta; Business Law

GROUP-B: MARKETING

SEMESTER-VII

BCMK/MJC-14: RESEARCH METHODOGY

Objective:

This course gives a competensive introduction to the subject of business research methods. The objective of this course is to develop the research skills of the Students in investigating the business problems with a view to arrive at objective findings, interpretation of data and conclusions of their investigation in the form of systematic reports. Further, acquainting them with all modern and universally applied research concepts and techniques and encouraging them to apply their acquired theoretical knowledge to real-life situations are part of this course objectives

Learning Outcomes:

At the end of this course, the students will be able to:

- understand some basic concepts of research and its methodologies
- identify appropriate research topics select and define appropriate research problem and parameters
- prepare a research proposal to undertake a research project
- enhance the ability to prepare the research report

COURSE CONTENTS:

BCMK/MJC-14: RESEARCH METHODOGY (Theory: 05 credits)		
Unit	**Topics to be covered**	**No. of Lectures**

1	**Introduction:** meaning of research: scope of business research, purpose of research- exploration, description, explanation, unit of analysis- individual, organization, groups and data series, conception, construct, attributes, variables and hypothesis.	**10**
2	**Research Process:** An overview; problem identification and definition, selection of basic research methods, field study, laboratory study, survey method, observational method, existing data based research.	**10**
3	**Data Collection Tools and Data Processing:** Questionnaire and Observation, Questionnaire Design, Process of Collecting Primary Data and Secondary Data, Interviews and Processing of Research Data Editing, Coding. Classification and Tabulation Analysis of Data- Basic Data Analysis, Descriptive Statistics, Hypothesis Testing	**10**
4	**Sampling Design and Measurement Techniques:** The Sampling Design Process ; Types of Sample Design Probability and Non-probability Sampling Design Size of Sample, Sampling Errors: Concept of Measurement and Scaling, Important Scaling Techniques Comparative and Non-comparative Viability and Validity of Measurement.	**10**
5	**Report preparation:** Meaning, types and layout of research report; steps in report writing,citation, bibliography and annexure in report, JEL classification. Brief Introduction to 'R', SPSS, MS Excel.	**10**
	TOTAL	**50**

Suggested Readings:

1. OR Krishnaswami & M. Ranganathan-Methodology of Research in Social Science, HPH, Mumbai.
2. JK Sachdeva- Business Research Methodology, HPH,Mumbai.
3. CR Kothari- Research Methodology- Methods and Techniques, New Age International Publishers.
4. Sashi K Gupta & Praneet Rangi- Research Methodology- Methods, Tools and Techniques, Kalyani Publishers

GROUP-B: MARKETING

SEMESTER-VII

BCMK/MJC-15: COMPANY LAW

Objective:

The objective of the course is to understand and evaluate the legal framework of Corporate Environment in India and to gain elementary knowledge of Indian Corporate law

Learning Outcomes:

After the completion of the course, the student will be able to:

- Understand the concept of Company as a form of Business organization & Acquiant with the legal norms relating to companies.
- Understanding the characteristics and types of Companies, illustrating the duties and responsibilities of director as per compliance under company,s Act 2013.
- Acquire knowledge of Company meetings, internal & esternal affairs of management and provisions related to payments of Divident & Books of Accounts.

COURSE CONTENTS:

BCMK/MJC-15: COMPANY LAW (Theory: 06 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to the Companies Act 1956 and 2013:** Definition of Company, its nature and Kinds- Formation of Company and its stages. Company documents, Memorandum of Association, Article ot Association and Prospectus. Alteration of Memorandum and Article of Association, Doctrine of constructive notice and doctrine of indoor Management.	**15**
2	**Share Capital-** Definition of share, shares and stock Types of shares, Types of share capital, Issue of Shares at premium and discount. Right issue, Issue of Bonus shares, Share Certificate, Share Warrant.	**10**
3	**Members, Shareholders and Board of Directors**: Meaning of member and shareholders, Distinguish between member and Shareholders. Methods of becoming a member. Rights and Liabilities of Members, Termination of membership. Board of Directors and their Right, Duties and Liabilities.	**12**
4	**Meetings and Resolutions-** Meaning of meeting, Types of meeting, Board Meeting, Shareholders Meeting- Statutory meeting, Annual General Meeting, Extra Ordinary General Meeting, Class Meeting. Types of Resolutions.	**12**
5	**Winding up of a Company-** Meaning, Modes of Winding up. Appointment of official liquidator. Powers and Duties of liquidator	**11**
	TOTAL	**60**

Suggested Readings:

1. R. K.Vishnoi & Satish Kumar Saha; SBPD Publications, Agra

2. Dr. Mrinal Kumar; Shiksha Sagar Publishers & Distributors, Agra
3. PPS Gogna- Company Law, S. Chand Publication.
4. Kiran Gupta- Introduction to Company Law.
5. Anil Kumar- Company Law
6. Avtar Singh- Introduction to Company Law.
7. N.D. Kapoor-Mercantile Law, S.Chand Publication
8. Jain, Vinod; Students guide to Companies Act; Taxmann, New Delhi

GROUP-B: MARKETING

SEMESTER-VIII

BCMK/MJC-16: BUSINESS COMMUNICATION

Learning Objective:

To acquaint the learners with the different modes of Communications as used in the Business for different purposes and enable them for preparing a good business report.

Learning outcomes:

After the completion of the course, the student will be able to:

- Understand the significance of communication particularly in the field of sales and its executions, claims and adjustments.
- Develop skill with forms of communication and its practical application in management.
- Acquire knowledge for conduct of meeting and writing various report with its techniques.

BCMK/MJC-16: BUSINESS COMMUNICATION (Theory: 04 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Business Communication,** Characteristics of Effective Organizational Communication, Basic Forms of Communication, Process of Communication, Principles of Effective Business Communication, 7 C's.	08
2	**Barriers to Communication,**	08

	Facilitators to Communication, Effective Listening, Perception & Reality, Role of Opinion, Attitudes & Beliefs, , Mal-functions of communication, Business Etiquettes.	
3	**Channels of Communications-** Formal, Informal, Rumour and informal communication Networks, Group Discussion, Paper Presentation, Speech, Debate, Quiz, Electronic Presentation.	08
4	**Forms of Business Communication,** Written Communication, Oral Communication, Non verbal Communication, Technology of Business Communication, Peculiarities of Communication in Indian Organizations, Conflict Management.	08
5	**Conduct of Meeting-** Agenda, Notice, Notes, Minutes, Office Memorandum, Office Orders, Press Release, Business Letter Writing-Need, functions & Kinds, Layout of letter writing, Types of letter writing, Report writing- Problems, Organization and techniques of writing.	08
	TOTAL	40

Suggested Readings:

1. N.S. Raghunathan & B. Santhanam, Business Communication, Margham Publications
2. Rajendra Pal and Korlehalli - Essentials of Business Communication
3. Sundar K- Business Communication, Vijay Nicole Imprints (P) Ltd.
4. Pillai and Bagawathi - Commercial correspondence and office management
5. R.S.N. Pillai & Bagavathi - Modern Commercial Correspondence
6. N.S. Pandurangan, B. Santhanam - Business Communication

MINOR PAPERS

GROUP-B: MARKETING

BCMK/MIC-1 : PRINCIPLES AND FUNCTIONS OF MARKETING

Objective:

To acquaint the learners about the Principles and practices as followed in Marketing of the Products and Services at the National and International level

Learning Outcomes

After the completion of the course, the student will be able to:

1. Acquaint with the concept of marketing and its functions in the present context.
2. Gain knowledge about marketing strategies.
3. Know the different aspects of marketing mix and develop the skill to promote the new product in the market.

BCMK/MIC-1 : PRINCIPLES AND FUNCTIONS OF MARKETING

(Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Fundamentals of Marketing**: Meaning, Concept, Importance, Functions of Marketing. Marketing and Selling, Modern Marketing Concept, Relationship Marketing.	10
2	**Market Segmentation**: Meaning, Objectives and Importance of Market Segmentation. Basis of Market Segmentation, Marketing Strategy-Segmentation, Targeting and Positioning.	10
3	**Marketing Mix**: Meaning, Elements of Marketing mix Product, Price, Promotion and Place. New Product Development Process. Reasons for failure of new product development.	10
	Sub Total	30

Suggested Readings :

1. Philip Kolter- Marketing Management
2. RSN Pillai- Modern Marketing, Chand Publication, N.Delhi.
3. Ramaswami- Marketing Management-Mc. Graw Hill
4. C.N. Sontakki-Marketing Management- Kalyani Publication
5. Arun Kumar Marketing Management-Vikas Publication. & N. Minakshi-

GROUP-B: MARKETING

BCMK/MIC-2: ADVERTISING MANAGEMENT

Objective:

To teach the basics of Advertising as promotional tools in mrrketing and to develop a customer oriented attitude for designing advertidsing model for the business

Learning Outcomes:

After completing the course, the Student shall be able to:

1. Understand the Communication objectives behind advertising and promotions.
2. Understand the various advertising and media elements in the advertising decisions.
3. Identify the ethical and legal issues of advertising.

Course Contents

BCMK/MIC-2: ADVERTISING MANAGEMENT (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Advertising** Communication Process, Information Response Hierarchy Models-AIDA Model & Hierarchy of Effects Model; Advertising Importance, types and objectives; DAGMAR Approach, Target audience selection-basis methods of setting of Advertising Budget.	10
2	**Advertising:Message and Media Decisions** Advertising Message-Advertising appeals Elements of print and broadcast advertising copy; Types of Advertising Media Strenghts and limitations Factors influencing selection of advertising media Media scheduling.	10
3	**Advertising Effectiveness and Institutional Framework** Rationale of measuring advertising effectiveness communication and sales Effect, Pre and Post testing Techiniques Advertising Agency: Role types and selection Ethical and legal aspects of advertising Role of Advertising Standards Council of India (ASCI)	10
	Sub Total	30

Suggested Readings:

1. Basu, C. R. (1998). Business Organization and Management. New Delhi: McGraw Hill Publishing India.
2. Chhabra, T. N. (2011). Business Organization and Management. New Delhi: Sun India Publications.
3. Gupta, C. B. (2011). Modern Business Organization. New Delhi: Mayur Paperbacks.
4. Kaul, V. K. (2012). Business Organization and Management, Text and Cases. New Delhi: Pearson Education.
5. Koontz, H., & Weihrich, H. (2008). Essentials of Management. New York: McGraw Hill

Education.
6. Singh, B. P., & Singh, A. K. (2002). Essentials of Management. New Delhi: Excel Books.
7. F. C. Sharma, Business Organisation,SBPD Publications, Agra
8. M.C. Shukla, Business Organisation, S. Chand Publications, New Delhi.
9. Y. P. Verma, Business Organisation, Sahitya Bhawan Publications, Agra.

SEMESTER-III

BCMK/MIC-3: SALES AND DISTRIBUTION MANAGEMENT

Objective:

It aims to help management students understand the fundamentals of Sales management and Distribution management so as to recognize the need of Business and to have the effective Sales and Distribution strategies for the satisfaction of channel partners.

Learning Outcomes:

After completion of the course, the learners will be able to:

- Recognize and demonstrate the significant responsibilities of sales person as key individual.
- Understand the basic concepts and techniques of selling and their applications to managerial decision makings in the field

COURSE CONTENTS:

BCMK/MIC-3: SALES AND DISTRIBUTION MANAGEMENT (Theory: 03 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Evolution of Sales Management**: Nature and Role of Sales Management. Sales Strategies: Relationship Strategy: Hard Sale Vs. Soft Sale Strategy, Setting Personal selling objective.	10
2	**Sales Training Program:** Role of a trainer: Training Method: Designing sales training program, Motivating Sales Personnel, Financial Compensation Methods, Nonfinancial Methods. Sales Meeting, Sales Contests: Managerial Evaluation of Contest	10
3	**Sales Organization**: Sole Organization Concepts Structures Procedure: Types; Methods. Territories Size: Allocation: Designing Allocating Sales Efforts, Sales Information System Planning: Reports, Evaluation of Sales Force. Process	10

	TOTAL	30

Suggested Readings:

1. Dr. Mrinal Kumar; Sales and Distribution Management; Shiksha Sagar Publishers & Distributors
2. Dr. F.C. Sharma; Sales and Distribution Management; SBPD POublications, Agra
3. Havaldar, Krishna K: Sales and Distribution Management, Tata McGraw Hill
4. Gupta S. L.: Sales & Distribution Management: Test & Cases in Indian Perspectives. Excel Books
5. Still, Kundiff, Govoni, Sales and Distribution Management, PHI,
6. L. Gorchels. C. West. E. J. Marien. The Managers Guide to Distribution Channels, McGraw Hills:

SEMESTER-IV

BCMK/MIC-4: CONSUMER BEHAVIOUR

Objective:

Objective of this course on Consumer Behaviour is to present a comprehensive coverage of the subject with examples from the Indian Scenario. This course also challenges students to understand the complexities of consitmer needs and perceptions and translate them into effective Marketing Strategies. The course will be hased on real life case-studies from Indian environment

Learning Outcomes:

After completion of the course, the learners will be able to:

- To explain the basic concept and model of consumer beahaviour
- To analyze the effects of psychological socio-cultural and demographic factors on the consumer decision process with their results
- To define the importance of consumer behaviour for businesses

COURSE CONTENTS:

BCMK/MIC-4: CONSUMER BEHAVIOUR (Theory: 03 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Understanding Consumer Behaviour:** Introduction to Consumer Behaviour Consumer Behaviour and the Marketing Concepts: Factors influencing Consumer Behaviour,	10
2	**Consumer Decision making process:** Concept of Consumer Decision: Levels of Consumer Decision Making: A Model of Consamer Decision-Making	10

3	**Consumer Motivation:** The concepts of motivation, Maslow's Theory of Motivation: Role of Motives in Guiding Behaviour: Involvement of Consumer	10
	TOTAL	30

Suggested Readings:

1. Dr. F.C Sharma; SBPD Publications, Agra
2. Dr. Mrinal Kumar; Shiksha Sagar Publishers & Distributors, Agra.
3. D. L. Leidon. J. Albert Della Bitta Consumer Behaviour, Concepts and Applications. Tata McGraw Hill Publishing Company Limited
4. Hawkins, H. J. Best, and K. A Coney: Comumer Behaviour Building Marketing Strategy, Tata McGraw-Hill Publishing Company Limited
5. FR. Kardes Consumer Behaviour and Managerial Decision Making, Prentice Hall of India Private Limited
6. Henry A. Consumer Behaviour and Marketing Action, Thomson Asia Pte Ltd
7. K. Srivastava, S. Khandai Consumer Behaviour in Indian Context Galgotia Publishing Compa
8. L. G. Schiffman, L L Kamuk. & S. R. Kumar, Consumer Behaviour, Pearson Education Inc
9. M. Evans, A, Jamal, & G. Foxall: Consumer Behaviour, John Wiley & Son LTD

SEMESTER-V

BCMK/MIC-5: RURAL MARKETING IN INDIA

Objective:

- To develop knowledge among students about importance of the rural sectors inmarketing and the provide solutions to the challenges faced by managers in rural marketing
- To apply tools and techniques to promote and distribute the products in rural and Practices
- To provide solutions to handle the problems in Agricultural Marketing

Learning Outcomes:

After completion of the course, the learners will be able to:

- Understand how rural marketing is different from urban marketing
- Clearly understand rural marketing strategies to be adopted.
- Illustrate the importance of CRM (Consumer Relationship Marketing) in service marketing
- To equip the students with the tools and techniques of rural which will help them to take distribution channels and logistics decisions in rural markets
- To prepare the students as a professionally qualified Marketing Managers in rural sectors

COURSE CONTENTS:

BCMK/MIC-5: RURAL MARKETING IN INDIA (Theory: 03 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Rural Marketing**: Rural Marketing - Concept. Nature and Scope, Importance, Rural Vs Urban Marketing Rural Marketing Environment, Emerging Rural Markets After Globalisation	10
2	**Rural Consumer:** Rural Consumer Characteristics, Attitudes and Behaviour, Buying Patterns and influences. Segmenting Rural Markets.	10
3	**Rural Marketing Strategies:** Rural Marketing Strategies Product Planning for Rural Markets, Quality and Size, Pricing Decisions, Packaging and Branding Decisions.	10
	TOTAL	30

SEMESTER-V

BCMK/MIC-6: TOURISM MARKETING

Objective:

- To enhance the students with the concept of marketing and its role in the promotion of tourism products
- To make the students aware of various tour packages and the use of technology in marketing
- Familiarize the students with the various marketing strategies adopted by major tour operators

Learning Outcomes:

- Students get an overview of the concept of marketing and its role in the promotion of tourism products
- Students are exposed to various tour packages and the use of technology in marketing
- Students obtain knowledge about various marketing strategies adopted by major tour operators

COURSE CONTENTS:

BCMK/MIC-6: TOURISM MARKETING (Theory: 03 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Understanding Marketing and Marketing Process:** Marketing Concepts, Nature and Scope of Marketing, Marketing Mix, Marketing Environment, Strategic Planning and Marketing Process, Organizing and Implementing Marketing in the Organization. Services Marketing: Concept, Definition, Characteristics with Special Emphasis on Tourism Services.	10
2	**Developing Marketing Opportunities and Strategies:** Marketing Information Systems and Marketing Research, Consumer Markets and Consumer Behaviour, Business Markets and Buyer Behaviour, Market Segmentation - Targeting and Positioning for competitive Advantage.	10
3	**Developing the Tourism Marketing Mix**: Managing the Product/Service, Product Decisions- Product Line, Product Mix, Product Life Cycle, New Product Development, Branding and Packaging Decisions, Pricing Products Pricing Considerations and Approaches. Pricing Strategies and Methods.	10
	TOTAL	**30**

Suggested Readings:

1. Dr. F.C.Sharma; Tourism Marketing; SBPD publishers, Agra
2. Dr. Mrinal Kumar; Tourism Marketing; Shiksha Sagar Publishers and Distributors, Agra
3. . Havaldar, Krishna K: Sales and Distribution Management, Tata McGraw Hill
4. Gupta S. L.: Sales & Distribution Management: Test & Cases in Indian Perspectives. Excel Books
5. Still, Kundiff, Govoni, Sales and Distribution Management, PHI,
6. L. Gorchels. C. West. E. J. Marien. The Managers Guide to Distribution Channels, McGraw Hills:
7. Russell W. McCalley, Marketing Channel Management: People, Products,
8. Programs, and Markets, Greenwood Publishing Group

SEMESTER-VI

BCMK/MIC-7: SERVICE MARKETING

Objective:

- To create awareness among the students about the ever growing importance of the service sectors and the unique challenges faced by managers in marketing the services.
- To make students aware marketing mix of various services and its importance in service sector

- To impart knowledge to the students in understanding specialized field of marketing

Learning Outcomes:

After completion of the course, the learners will be able to:

- Describe the concept of service marketing
- Clearly understand marketing mix strategy to be adopted in marketing the services
- Illustrate the importance of CRM (Consumer Relationship Marketing) in service marketing
- To equip the students with the tools and techniques of marketing of various profit making and non-profit making organizations.
- To prepare the students as a professionally qualified Marketing Managers in service sectors.

COURSE CONTENTS:

BCMK/MIC-7: SERVICE MARKETING (Theory: 03 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction-** Importance of Services Sector, Nature and Types of Service, Difference Between Service and Goods, Marketing. Environment for Services Marketing Indian Scenario	10
2	**Services Marketing Mix** Need for Expanded Marketing Mix. Product Mix, Promotion Mix, and Distribution Mix of Services, Additional three P's Process, Physical Evidence and Attractions and Management of Marketing people.	10
3	**Marketing Segmentation and Selection** Marketing Segmentation and Selection; Service Market Segmentation; Targeting and Positioning	10
	TOTAL	30

Suggested Readings:

6. Dr. F.C.Sharma;SBPD Publications, Agra
7. Dr. Mrinal Kumar; Shiksha Sagar , Publishers & Distributors, Agra
8. Jha S.m, Service Marketing HPH, Mumbai
9. Joseph T.M., Marketing Management; Indian Perspective HPH, Mumbai
10. Venu Gopal & Rahgu; Service Marketing, HPH, Mumbai

SEMESTER-VI

BCMK/MIC-8: DIGITAL MARKETING

Objective:

To create awareness on the concepts of Digital Marketing and its Impact on Modern Business

Learning Outcomes:

After completion of the course, the learners will be able to:

- To gain knowledge on Digital Marketing, Email marketing and Content marketing
- To understand Search Engine Optimization tools and techniques To gain skills on creation of Google Ad Words & Google AdSense
- To gain knowledge on Social Media Marketing and Web Analytics
- To gain knowledge on Youtube Advertising & Conversions

COURSE CONTENTS:

BCMK/MIC-8: DIGITAL MARKETING (Theory: 03 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Digital Marketing:** Introduction to Digital Marketing: Meaning and Definition of Digital Marketing. Need of Digital Marketing, Digital Marketing Platforms, Email Marketing Importance of email marketing, email Marketing platforms.	10
2	**Search Engine Optimization (SEO):** SEO Importance and Its Growth in recent years, Ecosystem of a search Engine, kinds of traffic, Keyword Research & Analysis (Free and Paid tool & Extension), Recent Google Updates & How Google Algorithms works On Page Optimization (OPO), SEO Tools: Google Webmaster Tools Site Map Creators 1, Google My Business	10
3	**Social Media Marketing (SMM) & Web Analytics:** Social Media Marketing (SMM) Facebook Marketing, Twitter Marketing, Linkedin Marketing, Google plus Marketing. YouTube Marketing, Pinterest Marketing, Snapchat Marketing, Instagram Marketing. Social Media Automation Tools, Social Media Ad Specs	10
	TOTAL	30

Suggested Readings:

1. Dr Mili Chaurasia & Dr. MeeraGoyal; SBPD Publications, Agra
2. Dr. Mrinal Kumar; Shiksha Sagar Publishers & Distributors
3. Malik R & Agarwal; R, digital marketing, Bluerose Publishers Pvt Ltd
4. Bhatia, P.S., Fundamentals of Digital Marketing , Pearson
5. Alan Charlesworth; Internet Marketing

BCMK/MIC-09: EVENT MANAGEMENT

Objective:

To enable stadenia to understand how event is to be managed and know the planning and procedure of even management

Learning Outcomes:

After completion of the course, the learners will be able to:

- Understand the significance of various events
- Dectionstrate the ability to organize the event
- Demonstrate the ability to conduct the event.
- Prepare the budget require for conducting an event

COURSE CONTENTS:

BCMK/MIC-09: EVENT MANAGEMENT (Theory: 04 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Event Management:** Event- Meaning Importance and Types of fivent, Analysis of Event, Event Managenicol Meaning, Decision Makers and their Roles and Responsibilities, 5 C's of EventManagement	10
2	**Event Management Planning and Procedure**: Establishing of Policies & Procedures, Steps in Planning the event, Principles of Event Management, Permissions and Licenses from Government and Local Authoritie	15
3	**Conduct of an Event**: Preparing a Planning Schedule, Steps in Organizing an event. Assigning Responsibility. Event Safety and Security, Conducting the Event-Checklist (Pre during and post event check list), Communication-channels of communications for different types of events,	15
	TOTAL	40

Suggested Readings:

1. Stephen, A, Event Management
2. Kilkenny, S. The Complete Guide to successful Event Planning.
3. Wagen, L.V.D, Human Resource Management for Events
4. Hayed, N, Successful Team Management.

5. Mohan, S, Event Management & Public Relations, Enkay Publishing House
6. Goyal, S.K, Event Management & Public Relations, Adhyayan Publisher

SEMESTER-VIII

BCMK/MIC-10: INTERNATIONAL MARKETING

Objective:

- Students will be able to understand the concept and importance of InternationaLmarketing
- To equip the students with marketing strategies of MNCs.
- To provide an in-depth knowledge of marketing mix to be applied in International Marketing
- To identify export policy and practices in India.

Learning Outcomes:

After completion of the course, the learners will be able to:

- Understand how International marketing strategies are different from domestic marketing strategies
- Will have clear concept of international pricing. factors influencing international price, pricing process and its methods,
- Be equipped with modern tools and techniques of International Marketing
- To prepare the students as a professionally qualified global Marketing Managers

COURSE CONTENTS:

BCMK/MIC-10: INTERNATIONAL MARKETING (Theory: 04 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction:** Nature, Definition and Scope of International Marketing. Domestic vs international marketing, marketing strategy of MNCs.	10
2	**Product planning for International Market:** Product planning for International Market -Product Mix, Branding, Packaging, quality issues, After Sales Services	15
3	**International Pricing:** International Pricing- Factors influencing international Price, Pricing process and Methods	15
	TOTAL	40

Suggested Readings:

1. Bhattacharya and Varchney: International Marketing Management, sultan chand New Delhi.
2. Kriplani V: International Marketing, prentice Hall, New Delhi.
3. Iceegan W J: Multinational MKTg Mgt, Prentice Hall, New Delhi.
4. AntarRastriya Vipnan, Kothari Jain, Ramesh book Depot.
5. Rathor, Rathor & Jani, International Marketing, HPH Bombay

Note:

1. The question paper pattern shall consists of three parts-

Part- A: Compulsory- consisting of objective/multiple choice type-
Each carrying two marks **10x2=20 marks**

Part- B- Short Answer Type- Four questions to be answered out of six questions-
Each carrying five marks **04x5 = 20 marks**

Part- C- Long Answer Type- Three questions to be answered out of five questions-
Each carrying ten marks **03x10=30 marks**

2. Examination shall not be held on OMR Sheets strictly.

Date-September 21, 2023

To

The Principal Secretary to Governor
Raj Bhawan, Patna

Sub: Submission of Uniform syllabus for 4 year Undergraduate courses of Bachelor of Science under CBCS in the Botany.

Sir,

With reference to letter No. BSU (UGC)-02/2023-1473/GS (I) dated 14.09.2023, a meeting of the panel of experts in Botany was held on 21.09.2023 to finalize the Syllabus for Botany. We are submitting the syllabus.

Yours sincerely,

Meenakshi Singh 20/9/2023
Prof. Meenakshi Singh
Head, Department of Botany,
Patna University, Patna

21/09/2023
Prof. Birendra Prasad
Head, Department of
Biotechnology,
Patna University, Patna

21.09.23
Prof. Sheo Prasad Singh
Head, Department of Botany,
V.K.S. University, Ara

21.9.23
Prof. M.S. Islam
University Professor of Botany
&
Principal, Daudnagar College,
Daudnagar
Magadh Univ., Bodh Gaya

21.09.2023
Prof. Manorma Kumari
Department of Botany,
A.N. College, Patliputra
University, Patna

21/9/23
Prof. K. Hamidi
Head, Department of Botany
B.R.A.B University, Muzaffarpur

21.09.2023
Prof. Md. Sarfaraz Ahmad
Head, Department of Botany
J.P. University, Chapra

21/9/23
Prof. Surya Mani Kumar
Department of Botany
B.N.Mandal University,
Madhepura

21/09/2023
Dr. Saumya Srivastava
Assistant Professor
Department of Botany,
Patna University, Patna

AK Singh 21/09/2023
Dr. Ankit Kumar Singh
Assistant Professor
Department of Botany
L.N.Mithila University,
Darbhanga

21.09.2023
Dr. Sandeep Kumar Tata
Assistant Professor
Department of Botany
Munger University, Munger

Uniform Syllabus for 4-Year Undergraduate Programme of Bachelor of Science (Hons.) under CBCS in the subject Botany

Course Structure of different Semesters

Semester –I

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Phycology and Microbiology (T)	MJC-1 (T)	4-1-0	4	100
2	Phycology and Microbiology (P)	MJC-1 (P)	0-0-6	2	100
3	Minor Course selected from other Department	MIC-1	4-1-0	3	100
4	Multidisciplinary Course 1	MDC-1	4-1-0	3	100
5	English Communication/MIL	AEC-1	2-1-0	2	100
6	Skill Enhancement Course (from Basket)	SEC-1	1-0-3	3	100
7	Value Added Course (from Basket)	VAC-1	1-0-3	3	100
				Total Credit-20	

Semester –II

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Biomolecules and Cell Biology (T)	MJC-2 (T)	4-1-0	4	100
2	Biomolecules and Cell Biology (P)	MJC-2 (P)	0-0-6	2	100
3	Minor Course selected from other Department	MIC-2	4-1-0	3	100
4	Multidisciplinary Course 2	MDC-2	4-1-0	3	100
5	Environmental Science	AEC-2	2-1-0	2	100
6	Skill Enhancement Course (from Basket)	SEC-2	1-0-3	3	100
7	Value Added Course (from Basket)	VAC-2	1-0-3	3	100
				Total Credit-20	

Semester –III

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Mycology and Phytopathology (T)	MJC-3 (T)	4-1-0	3	100
2	Mycology and Phytopathology (P)	MJC-3 (P)	0-0-6	2	100
3	Archegoniate (T)	MJC-4 (T)	4-1-0	3	100
4	Archegoniate (P)	MJC-4 (P)	0-0-4	1	100
5	Minor Course selected from other Department	MIC-3	4-1-0	3	100
6	Multidisciplinary Course 3	MDC-3	4-1-0	3	100
7	Disaster Risk Management	AEC-3	2-1-0	2	100
8	Skill Enhancement Course (from Basket)	SEC-3	1-0-3	3	100
				Total Credit-20	

Semester –IV

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Morphology and Anatomy (T)	MJC-5 (T)	4-1-0	3	100
2	Morphology and Anatomy (P)	MJC-5 (P)	0-0-6	2	100
3	Economic Botany	MJC-6 (T)	5-1-0	5	100
4	Genetics	MJC-7 (T)	5-1-0	5	100
5	Minor Course selected from other Department	MIC-4	4-1-0	3	100
6	Courses on NCC/NSS/NGOs/Social Service/Scout & Guide/Sports	AEC-4	2-1-0	2	100
				Total Credit-20	

Semester –V

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Molecular Biology (T)	MJC-8 (T)	4-1-0	3	100
2	Molecular Biology (P)	MJC-8 (P)	0-0-6	2	100
3	Plant Ecology and Phytogeography (T)	MJC-9 (T)	4-1-0	3	100
4	Plant Ecology and Phytogeography (P)	MJC-9 (P)	0-0-6	2	100
5	Minor Course selected from other Department	MIC-5	4-1-0	3	100
6	Minor Course selected from other Department	MIC-6	4-1-0	3	100
7	Internship	INT-1	-	4	100
				Total Credit-20	

Semester –VI

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Plant Systematics (T)	MJC-10 (T)	4-1-0	3	100
2	Plant Systematics (P)	MJC-10 (P)	0-0-4	1	100
3	Reproductive Biology of Angiosperms	MJC-11 (T)	4-1-0	3	100
4	Reproductive Biology of Angiosperms	MJC-11 (P)	0-0-6	2	100
5	Plant Physiology (T)	MJC-12 (T)	4-1-0	3	100
6	Plant Physiology (P)	MJC-12 (P)	0-0-6	2	100
7	Minor Course selected from other Department	MIC-7	4-1-0	3	100
8	Minor Course selected from other Department	MIC-8	4-1-0	3	100
				Total Credit-20	

Semester –VII

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Plant Metabolism	MJC-13 (T)	5-1-0	5	100
3	Research Methodology	MJC-14 (T)	5-1-0	5	100
4	Recombinant DNA Technology & Plant Biotechnology (T)	MJC-15 (T)	4-1-0	4	100
5	Recombinant DNA Technology & Plant Biotechnology (P)	MJC-15 (P)	0-0-6	2	100
6	Minor Course selected from other Department	MIC-9	4-1-0	4	100
				Total Credit-20	

Semester –VIII

Sl. No.	Name of the Course	Type of Course	L-T-P	Credit	Marks
1	Horticultural practices and Post-Harvest Management Technology	MJC-16 (T)	4-1-0	4	100
3	Minor Course selected from other Department	MIC-10	4-1-0	4	100
4	Research Project/Dissertation	RP-1	-	12	
				Total Credit-20	

***L/T/P: number of classes per week**

SEMESTER –I

MJC-1 (T): Phycology and Microbiology

Course Objective

This Course aims to enhance the knowledge of Algae and Microbes. Algae have significant importance in industry and also used as food and fodder. As microbes are everywhere and affect almost all aspects of our lives, the study of microbes is necessary.

Course Outcomes

After the completion of the course, the students will be able to:

CO1: Classify the plant kingdom
CO2: Describe the diversity, structure and importance of viruses and bacteria
CO3: Describe the general account of mycoplasma
CO4: Explain the thallus organization, economic importance and the life cycle of various algae

MJC-1 (T)	**Phycology and Microbiology (Theory : 4 credits)**	
Unit	**Topics to be covered**	**No. of Lectures**
1	Classification of Plant Kingdom and their important features (Whittaker1969)	02
2	**Algae:** General characteristics; Classification; Range of thallus organization and reproduction; Significant contributions of important Phycologists (F.E. Fritsch, G.M. Smith, H.D. Kumar, M.O.P. Iyengar); Structure, Life history and affinities of the following genera: *Nostoc, Volvox, Oedogonium, Chara, Vaucheria, Batrachospermum* and *Ectocarpus*; Economic Importance of Algae	14
3	**Virus:** Discovery, Nature and General structure, DNA virus (Bacteriophage)- Structure and its replication (Lytic and lysogenic Cycle), RNA virus (TMV), Corona virus (elementary idea); Economic importance of viruses	10
4	**Bacteria**: Discovery, Characteristics and Cell Structure, Types- Archaebacteria and Eubacteria, Reproduction- vegetative, asexual and genetic recombination (Conjugation, Transformation and Transduction); Economic importance of bacteria with reference to their role in agriculture and industry; Role of Microbes in Biological nitrogen fixation; General account of Mycoplasma.	14
	TOTAL	**40**

Suggested Readings:

1. Lee, R.E. (2008). Phycology, Cambridge University Press, Cambridge. 4th edition.
2. Prescott, L.M., Harley J.P. and Klein D.A. (2005). Microbiology, McGraw Hill, India. 6th edition
3. Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West Press, Delhi.
4. Campbell, N.A., Reece J.B., Urry L.A., Cain M.L., Wasserman S.A. Minorsky P.V., Jackson R.B. (2008). Biology, Pearson Benjamin Cummings, USA. 8th edition.
5. Pelczar, M.J. (2001) Microbiology, 5th edition, Tata McGraw-Hill Co, New Delhi.
6. Vashishtha, B.R., Sinha, A.K and Singh, V.P. (2010). Botany for degree students: Algae, S. Chand & Company Ltd. 2nd edition
7. Srivastava, H.N. (2005). Algae, Pradeep Publication. 12th edition.
8. Dubey R.C. and Maheshwari D.K. (2005). A Text Book of Microbiology, S. Chand & Company Ltd. 2nd edition.

MJC-1 (P)	Phycology and Microbiology (Practical: 2 credits)	Number of Classes
Practical 1. Electron micrographs/Models of viruses–T-Phage and TMV 2. Line drawings/Photographs of Lytic and Lysogenic Cycle 3. Types of Bacteria to be observed from photographs 4. Gram staining of bacteria. 5. Phycology: Study of vegetative and reproductive structures of the forms prescribed in the syllabus through temporary slides preparation.		**40**

SEMESTER -I

MIC-1 (T): Phycology and Microbiology

Course Objective

This Course aims to enhance the knowledge of Algae and Microbes. Algae have significant importance in industry and also used as food and fodder. As microbes are everywhere and affect almost all aspects of our lives, the study of microbes is necessary.

Course Outcomes

After the completion of the course, the students will be able to:

CO1: Describe the diversity, structure and importance of viruses and bacteria

CO2: Explain the thallus organization, economic importance and the life cycle of various algae

MIC-1 (T)	Phycology and Microbiology (Theory: 2 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Five kingdom classification **Algae**: Characteristics, Morphology and life cycle of *Nostoc, Oedogonium* and *Chara*	07
2	**Virus**: Discovery and General Structure, DNA Virus (Bacteriophage)-Structure and its replication (Lytic and Lysogenic Cycle), RNA Virus (TMV), Economic importance of Viruses.	06
3	**Bacteria**: Discovery, Characteristics and Cell structure, Reproduction-vegetative, asexual and genetic recombination (Conjugation, Transformation and Transduction), Economic importance of Bacteria.	07
	TOTAL	**20**

Suggested Readings:

1. Lee, R.E. (2008) Phycology, Cambridge University Press, Cambridge. 4th edition.
2. Prescott, L.M., Harley J.P., Klein D.A. (2005). Microbiology, McGraw Hill, India.6th edition
3. Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West Press, Delhi.
4. Pelczar, M.J. (2001) Microbiology, 5th edition, Tata McGraw-Hill Co, New Delhi.
5. Vashishtha, B.R., Sinha, A.K. Singh, V.P. (2010). Botany for degree students: Algae, S. Chand & Company Ltd. 2nd edition
6. Srivastava, H.N. (2005). Algae, Pradeep Publication. 12th edition.
7. Dubey R.C., Maheshwari D.K. (2005). A Text Book of Microbiology, S. Chand & Company Ltd. 2nd edition.

MIC-1 (P) Phycology and Microbiology (Practical: 1 credit)	No. of Classes
(a) Algae- Study of Vegetative and reproductive structures of the forms prescribed in the syllabus through slides. (b) Models and microphotographs of viruses and bacteria.	20

SEMESTER -I

MDC-1 (T): Phycology and Microbiology

Course Objective

This Course aims to enhance the knowledge of Algae and Microbes. Algae have significant importance in industry and also used as food and fodder. As microbes are everywhere and affect almost all aspects of our lives, the study of microbes is necessary.

Course Outcomes

After the completion of the course, the students will be able to:

CO1: Describe the diversity, structure and importance of viruses and bacteria

CO2: Explain the thallus organization, economic importance and the life cycle of various algae

MDC-1 (T) Phycology and Microbiology (Theory: 2 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Algae**: Characteristics, Morphology and life cycle of *Nostoc, Oedogonium* and *Chara*	07
2	**Virus**: Discovery and General Structure, DNA Virus (Bacteriophage)-Structure and its replication (Lytic and Lysogenic Cycle), RNA Virus (TMV) Economic importance of Viruses.	06
3	**Bacteria**: Discovery, Characteristics and cell structure, Reproduction-Vegetative, asexual and genetic recombination (Conjugation, Transformation and Transduction), Economic importance of Bacteria.	07
	TOTAL	**20**

Suggested Readings:

1. Prescott, L.M., Harley J.P., Klein D.A. (2005). Microbiology, McGraw Hill, India. 6th edition
2. Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West Press, Delhi.
3. Vashishtha, B.R., Sinha, A.K. Singh, V.P. (2010). Botany for degree students: Algae, S. Chand & Company Ltd. 2nd edition
4. Srivastava, H.N. (2005). Algae, Pradeep Publication. 12th edition.
5. Dubey R.C., Maheshwari D.K. (2005). A Text Book of Microbiology, S. Chand & Company Ltd. 2nd edition.

MDC-1 (P) Phycology and Microbiology (Practical: 1 credit)	No. of Classes
(a) Algae: Study of Vegetative and reproductive structures of the forms prescribed in the syllabus through temporary slides preparation. **(b)** Models and microphotographs of viruses and bacteria.	**20**

Semester-II

MJC-2 (T): Biomolecules and Cell Biology

Course Objective

Students should be able to understand the biological Micromolecules. The accurate measurement and monitoring of the concentration of specific Bio molecules in a living system are crucial to ensure the well-being of the cells and living organism.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Describe the structure, properties and functions of bio molecules
CO2: Explain the classification, properties and functions of enzymes
CO3: Describe cell wall, cell membrane and the structure and functions of cellular organelles
CO4: Explain the eukaryotic cell cycle, mitosis and meiosis

MJC-2 (T)	Biomolecules and Cell Biology (Theory: 4 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Biomolecules**: Structure, classification and function of Carbohydrates, amino acids, proteins, lipids and nucleic acid	12
2	**Enzymes**: Classification, nomenclature, physico-chemical properties mechanism of action and regulation	10
3	**Cell**: Cell theory; Structure of prokaryotic and eukaryotic cells; Origin of eukaryotic cell (Endosymbiotic theory); Cell wall and Cell membrane, structure and function of cell organelles: nucleus, mitochondria, ribosomes, golgi apparatus, endoplasmic reticulum, lysosomes, chloroplast and vacuoles; Structure of chromosome with nucleosome concept	14
4	**Cell cycle; Cell division:** Mitosis and Meiosis	04
	TOTAL	**40**

Suggested Readings:

1. Campbell, M.K. (2012) Biochemistry, 7thed., Published by Cengage Learning.
2. Campbell, P.N. and Smith AD (2011) Bio chemistry Illustrated, 4thed., Published by Churchill Living stone.
3. Tymoczko J.L., Berg J.M. and Stryer L (2012) Biochemistry: A short course, 2nd ed., W.H. Freeman
4. Berg J.M, Tymoczko J.L and Stryer L (2011) Bio chemistry, W.H. Freeman and Company.
5. Nelson D.L and Cox M.M (2008) Lehninger Principles of Biochemistry, 5thEdition., W.H. Freeman and Company.
6. Karp, G. (2010). Cell Biology, John Wiley & Sons, U.S.A. 6th edition.
7. Hardin, J., Becker, G., Skliensmith, L.J. (2012). Becker's World of the Cell, Pearson Education Inc. U.S.A. 8thedition.
8. Cooper, G.M and Hausman, R.E. (2009) The Cell: A Molecular Approach, 5thedition. ASM.

MJC-2 (P)	Biomolecules and Cell Biology (Practical: 2 credits)	Number of Classes
Practical 1. Estimation of protein and sugar 2. Detection of tannin, alkaloid and flavonoid in the given plant sample 3. Separation of amino acids by paper chromatography technique 4. Study of cell and its organelles with the help of electron microphotographs 5. Study of different stages of mitosis and meiosis		**40**

SEMESTER -II

MIC-2 (T): Biomolecules and Cell Biology

Course Objective

Students should be able to understand the Micromolecules. The accurate measurement and monitoring of the concentration of specific Bio molecules in a living system are crucial to ensure the well-being of the cells and living organism.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Describe the structure and properties of bio molecules
CO2: Explain the classification, properties and functions of enzymes
CO3: Describe cell wall, cell membrane and the structure, chemistry and functions of cellular organelles
CO4: Explain mitotic and meiotic cell divisions

MIC 2 (T)	Biomolecules and Cell Biology (Theory: 2 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Bio-molecules**: Structure, classification and function of Carbohydrates, Amino acids, Protein	06
2	**Enzymes**: Nomenclature, Classification, mode of action	04
3	**Cell Biology:** a. Structure of the cell as seen under Electron Microscope b. Characteristics of Prokaryotic & Eukaryotic Cells c. Structure of Chromosome d. Mitosis and meiosis	10
	TOTAL	**20**

Suggested Readings:

1. Campbell, M.K. (2012) Biochemistry, 7th ed., Published by Cengage Learning.
2. Tymoczko J.L, Berg J.M and Stryer L (2012) Biochemistry: A short course, 2nd ed., W.H.Freeman
3. Berg J.M, Tymoczko J.L and Stryer L (2011) Bio chemistry, W.H. Freeman and Company.
4. Nelson D.L and Cox M.M (2008) Lehninger Principles of Biochemistry, 5th Edition., W.H. Freeman and Company.
5. Karp, G. (2010). Cell Biology, John Wiley & Sons, U.S.A .6th edition.
6. Hardin, J., Becker, G.S, Kliensmith, L.J. (2012) Becker's World of the Cell, Pearson Education Inc. U.S.A. 8th edition.
7. Cooper, G.M .and Hausman, R.E. (2009) The Cell: A Molecular Approach, 5th edition. ASM.

MIC-2 (P) Biomolecules and Cell Biology (Practical: 1 credit)	No. of Classes
1. Detection of Carbohydrates and Protein 2. Study of different stages of mitosis and meiosis	20

SEMESTER -II

MDC-2 (T): Biomolecules and Cell Biology

Course Objective

Students should be able to understand the Micromolecules. The accurate measurement and monitoring of the concentration of specific Bio molecules in a living system are crucial to ensure the well-being of the cells and living organism.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Describe the structure and properties of bio molecules
CO2: Explain the classification, properties and functions of enzymes
CO3: Describe cell wall, cell membrane and the structure, chemistry and functions of cellular organelles
CO4: Explain mitotic and meiotic cell divisions

MDC-2 (T)	Biomolecules and Cell Biology (Theory: 2 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Bio molecules- Structure, classification and function of Carbohydrates, Amino acids, Protein	06
2	Enzymes- Nomenclature, Classification, mode of action	04
3	Cell Biology- a. Structure of the cell as seen under Electron Microscope b. Characteristics of Prokaryotic & Eukaryotic Cells c. Structure of Chromosome d. Mitosis and meiosis	10
	TOTAL	**20**

Suggested Readings:

1. Campbell, M.K (2012) Biochemistry, 7th ed., Published by Cengage Learning.
2. Tymoczko J.L, Berg J.M and Stryer L (2012) Biochemistry: A short course, 2nd ed., W.H.Freeman
3. Berg J.M, Tymoczko J.L and Stryer L (2011) Bio chemistry, W.H. Freeman and Company.
4. Nelson D.L and Cox M.M (2008) Lehninger Principles of Biochemistry, 5th Edition., W.H. Freeman and Company.
5. Karp, G. (2010). Cell Biology, John Wiley & Sons, U.S.A .6th edition.

MDC-2 (P) Biomolecules and Cell Biology (Practical: 1 credit)	No. of Classes
1. Detection of Carbohydrates and Protein 2. Study of different stages of mitosis and meiosis	20

SEMESTER -III

MJC-3 (T): Mycology and Phytopathology

Course Objective

Students will acquire sound theoretical knowledge and understanding of the fundamentals of fungal groups and lichens, their ecology, classification, characteristics, reproduction and economic importance. Moreover, few fungi are fatal for plants, as they cause serious diseases. Study of their control measures are important for their further spread.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop an understanding about the thallus organization, nutrition, economic importance and life cycle of various fungi

CO2: Understand the terms, scope and importance of plant pathology

CO3: Describe the etiology, symptoms and control measures of plant diseases

CO4: Learn about various associations: Lichens and Mycorrhizae

MJC-3 (T)	Mycology and Phytopathology (Theory: 3 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Fungi:** General characteristics; Thallus organization; Nutrition; Cell wall composition; Reproduction and Classification	10
2	Structure and life history of the following genera: *Synchytrium, Albugo, Peziza, Puccinia* and *Alternaria*	10
3	**Phytopathology:** Terms and concepts; General symptoms; Host-Pathogen relationships; disease cycle; prevention and control of plant diseases	10
4	Etiology, symptoms and control of the following diseases: Citrus canker, Little leaf of brinjal, Early and Late blight of potato, Black stem rust of wheat and White rust of crucifers, Red rot of sugarcane. General account of Lichens, types & economic importance; Mycorrhiza-Ectomycorrhiza, Endomycorrhiza and their significance	10
	TOTAL	**40**

Suggested Readings:

1. Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley & Sons (Asia) Singapore. 4th edition.
2. Webster, J. and Weber, R. (2007). Introduction to Fungi, Cambridge University Press, Cambridge. 3rd edition.
3. Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi and Their Allies, Macmillan Publishers India Ltd.
4. Sharma, P.D. (2011). Plant Pathology, Rastogi Publication, Meerut, India.
5. Vashishtha, B.R. Sinha, A.K. (2005). Botany for degree Students Part II, S. Chand & Company Ltd. 2nd edition.
6. Bilgrami, K.S. Dubey, H.C. (2005). A text book of Modern Plant Pathology, Vikas Publishing Home Pvt. Ltd. 2nd edition.

MJC-3 (P)	Mycology and Phytopathology (Practical: 2 credits)	No. of Classes
Practical: 1. Mycology: Study of vegetative and reproductive structures of *Rhizopus* and *Peziza* (ascocarp) through temporary preparations and permanent slides 2. Lichen: Study of growth forms of lichens (crustose, foliose and fruticose) on different substrates (Photographs); Mycorrhizae: ectomycorrhizal and endomycorrhiza (Photographs) 3. Phytopathology: Study of Host-parasite relationship of *Synchytrium, Albugo, Alternaria* and *Puccinia* through temporary preparations and permanent slides 4. Photographs of fungal spores 5. Herbarium specimens/Photographs of Citrus Canker; TMV, Early blight of potato, Black stem rust of wheat and White rust of crucifers		**40**

SEMESTER –III

MJC-4 (T): Archegoniate

Course Objective

This course is designed to let students have a basic knowledge of bryophytes, pteridophytes and gymnosperms, in terms of their life cycle, evolution and diversity. Students will have in-depth knowledge about their economic importance.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop awareness about morphology, diversity and evolution of bryophytes, pteridophytes and gymnosperms

CO2: Compare the life cycle of various bryophytes, pteridophytes and gymnosperms

CO3: Understand the economic importance of the bryophytes, pteridophytes and gymnosperms

CO4: Know the importance of studying fossils

MJC-4 (T)	Archegoniate (Theory: 3 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Distinguishing features of archegoniates; Alternation of generation	02
2	**Bryophytes:** General Characteristics, Adaptation to land habit, Classification (up to family); Vegetative reproduction; Range of thallus organization; Structure, life history and affinities of the following genera- *Marchantia, Anthoceros* and *Sphagnum*; Ecological and economic importance of bryophytes	12
3	**Pteridophytes:** General characteristics, classification (up to family), stelar evolution, apogamy and apospory, morphology, anatomy and reproduction of *Psilotum*, *Selaginella* (with special reference to seed habit), *Equisetum* and *Marsilea*; Ecological and economic importance; Fossil Pteridophyte– *Rhynia*	14
4	**Gymnosperm:** General characteristics, classification (up to family), morphology, anatomy and reproduction of *Cycas*, *Pinus* and *Gnetum*; Ecological and economic importance; Fossil Gymnosperm – *Lyginodendron*	12
	TOTAL	**40**

Suggested Readings:

1. Vander-Poorteri 2009 Introduction to Bryophytes, COP.
2. Vashistha, P.C., Sinha, A.K., Kumar, A. (2010). Pteridophyta, S. Chand. Delhi, India.
3. Bhatnagar, S.P. &Moitra, A. (1996). Gymnosperms,, New Age International (P) Ltd Publishers, New Delhi, India.
4. Vashistha, P.C., Sinha, A.K. Kumar, A. (2006). Botany for degree students: Gymnosperm, S. Chand & Company Pvt. Ltd.
5. Srivastava, H.N. (2002). Gymnosperm, Pradeep Publications. 10th edition.
6. Rashid A. (1999). An introduction to Pteridophyta Vikas Publishing Home Pvt. Ltd. 2nd edition.
7. Puri P. (1996). Bryophyta: Morphology, Growth and Differentiation, Atma Ram and Sons, 2nd edition.

MJC-4 (P)	Archegoniate (Practical: 1 credit)	No. of Classes
Practical: 1. Bryophytes: Study of vegetative and reproductive structures of *Marchantia, Anthoceros, Sphagnum* through temporary preparations and permanent slides 2. Pteridophytes: Study of vegetative and reproductive structures of *Psilotum*, *Selaginella*, *Equisetum* and *Marsilea* through temporary preparations and permanent slides 3. Gymnosperms: Study of vegetative and reproductive structures of *Cycas*, *Pinus* and *Gnetum* through temporary preparations and permanent slides		**20**

MIC-3 (T): Mycology and Phytopathology

Course Objective

Students will acquire sound theoretical knowledge and understanding of the fundamentals of fungal groups and lichens, their ecology, classification, characteristics, reproduction and economic importance. Moreover, few fungi are fatal for plants, as they cause serious diseases. Study of their control measures are important for their further spread.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Describe the thallus organization, nutrition, economic importance and life cycle of various fungi
CO2: Explain the diversity, structure and importance of lichen and mycorrhiza
CO3: Describe the terms, scope and importance of plant pathology
CO4: Describe the etiology, symptoms and control measures of plant diseases

MIC-3	Mycology and Phytopathology (Theory: 2 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Fungi:** General characteristics; Thallus organization General account of Lichens, types & economic importance; Mycorrhiza-Ectomycorrhiza, Endomycorrhiza and their significance	06
2	Structure and life history of the following genera: *Synchytrium* and *Puccinia*	06
3	Etiology, symptoms and control of the following diseases: Citrus canker, Little leaf of brinjal, Late blight of potato, White rust of crucifers	08
	TOTAL	20

Suggested Readings :

1. Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley & Sons (Asia) Singapore. 4th edition.
2. Webster, J. and Weber, R. (2007). Introduction to Fungi, Cambridge University Press, Cambridge. 3rd edition.
3. Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi and Their Allies, Macmillan Publishers India Ltd.
4. Sharma, P.D. (2011). Plant Pathology, Rastogi Publication, Meerut, India.
5. Vashishtha, B.R. Sinha, A.K. (2005). Botany for degree Students Part II, S. Chand & Company Ltd. 2nd edition.
6. Bilgrami, K.S. Dubey, H.C. (2005). A text book of Modern Plant Pathology, Vikas Publishing Home Pvt. Ltd. 2nd edition.

MIC-3 (P)	Mycology and Phytopathology (Practical: 1 credit)	No. of Classes
Practical : 1. Photographs of above mentioned diseases. 2. Temporary slide preparation of diseases studied in theory		**20**

MDC-3: Horticultural Practices

Course Objective

The course will let the students understand the basic scope and importance of horticulture and gain in-depth knowledge of various fruits, vegetables and ornamental plants.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the scope and importance of horticulture
CO2: Obtain knowledge of different fruits, vegetables and ornamental plants.
CO3: Know the basics of horticulture practices for fruits, vegetables and ornamental plants
CO4: Understand the importance of Post-harvest technology.

MIC-10	Horticultural Practices (Theory: 3 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction:** Scope and importance, Branches of horticulture; Role in rural economy and employment generation; Urban horticulture and ecotourism.	06
2	**Ornamental plants:** Types, classification (annuals, perennials, climbers and trees); Identification and salient features of some ornamental plants [rose, marigold, carnations, cacti and succulents **Fruit and vegetable crops:** Production, origin and distribution; Description of plants and their economic products; Management and marketing of vegetable and fruit crops; Identification of some fruits and vegetable varieties banana, mango, chillies and cucurbits).	12
3	**Horticultural techniques:** Application of manure, fertilizers, nutrients and PGRs; Weed control; Biofertilizers, biopesticides; Irrigation methods (drip irrigation, surface irrigation, furrow and borderirrigation); Propagation Methods: asexual (grafting, cutting, layering, budding)	12
	TOTAL	30

Suggested Readings :

1. Singh, D. & Manivannan, S. (2009). Genetic Resources of Horticultural Crops. Ridhi International, Delhi, India.
2. Swaminathan, M.S. and Kochhar, S.L. (2007). Groves of Beauty and Plenty: An Atlas of Major Flowering Trees in India. Macmillan Publishers, India.
3. NIIR Board (2005). Cultivation of Fruits, Vegetables and Floriculture. National Institute of Industrial Research Board, Delhi.
4. Kader, A.A. (2002). Post-Harvest Technology of Horticultural Crops. UCANR Publications,USA

SEMESTER – IV

MJC-5 (T): Morphology and Anatomy

Course Objective

This course will introduce the concept of tissue system, its relevance and presence in the plant body. Students will also acquire knowledge about normal and anomalous secondary growth in plant system. Tissue organization in relation to environment will be studied. Students will acquire the knowledge about the morphological features of plant.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Know the morphological characters of plants.
CO2: Understand the tissue system and the normal as well as anomalous secondary growth in plants.
CO3: Learn about the structural adaptations in plants growing in different environmental conditions
CO4: Describe the structure and function of periderm

MJC-5 (T)	**Morphology and Anatomy (Theory: 3 credits)**	
Unit	**Topics to be covered**	**No. of Lectures**
1	Brief account of inflorescence, flowers, fruits and seeds	08
2	Meristem and permanent tissue; Root and shoot meristem, simple and complex tissue Mechanical Tissues – Structure, distribution and function	10
3	Normal secondary growth; Anomalous secondary growth in *Tinospora, Bignonia, Boerhaavia,* and *Dracaena*	10
4	Organization of tissue in relation to environment: Hydrophytes, Xerophytes, Halophytes and Epiphytes Periderm – Origin, structure and function	12
	TOTAL	40

Suggested Readings:

1. Dickison, W.C. (2000). Integrative Plant Anatomy, Harcourt Academic Press, USA.
2. Fahn, A. (1974). Plant Anatomy, Pergmon Press, USA.
3. Mauseth, J.D. (1988). Plant Anatomy, The Benjamin/Cummings Publisher, USA.
4. Esau, K. (1977). Anatomy of Seed Plants, John Wiley & Sons, Inc., Delhi.
5. Vasishtha, P.C. (2004). Plant Anatomy, Pradeep Publication. 17th edition.
6. Grewal, R.C. (2011). Plant Anatomy, Campus Book International. 1st edition.
7. Singh S.K. Srivastava. S. (2014). Anatomy of angiosperms, Campus Books International. 1st edition.

MJC-5 (P)	Morphology and Anatomy (Practical: 2 credits)	No. of Classes
Practical 1. Study of anatomical details through permanent slides/temporary stain mounts/ Photographs 2. Distribution and types of parenchyma, collenchyma and sclerenchyma through permanent slides/temporary stain mounts/ Photographs 3. Study of anomalous secondary growth in *Tinospora, Bignonia, Boerhaavia,* and *Dracaena* through temporary preparations and permanent slides 4. Study of morphological and anatomical adaptations in hydrophytes and xerophytes through specimens and temporary slide preparations.		**40**

SEMESTER – IV

MJC-6: Economic Botany

Course Objective

Students will acquire sound theoretical knowledge and understanding of the botanical characteristics, economic importance and distribution pattern of crops, fruits, vegetables, timber and fiber-yielding plants etc. Students will also study uses of medicinal, sugar and starch yielding plants.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Create awareness about plants of economic importance
CO2: Know about their distribution patterns
CO3: Acquire skill in identification of medicinal plants
CO4: Learn about their cultivation and economic importance

MJC-6 (T)	Economic Botany (Theory: 5 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Botanical characteristics, cultivation and uses of Cereals (Wheat, Maize and Rice), Legumes (Gram, Garden pea), Oil and Fats (Mustard and Groundnut) yielding plants	14
2	Botanical characteristics, cultivation and uses of Spices (Coriander, Chilli and Turmeric), Fruits and Vegetables (Mango, Litchi, Cauliflower, Brinjal)	12
3	Botanical characteristics, cultivation, processing and uses of Beverages (Tea and Coffee), Narcotics, Timber and Fiber yielding plant (Sal, Teak, Cotton, Jute), Rubber and Gum yielding plants	14
4	Botanical characteristics, cultivation and uses of ten (10) Medicinal plants of Bihar; Sugar (Sugarcane) and Starch (Potato) yielding plants.	10
	TOTAL	50

Suggested Readings :

1. Kochhar, S.L. (2012). Economic Botany in Tropics, MacMillan & Co. New Delhi, India.
2. Chrispeels, M.J. and Sadava, D.E. (2003). Plants, Genes and Agriculture, Jones & Bartlett Publishers.
3. Pandey, B.P. (2005). Economic Botany, S. Chand & Company Pvt. Ltd. 6th edition.
4. Kochner, S.N. (2016). Economic Botany: A Comprehensive Study, Cambridge University Press. 5th edition.
5. Sharma, V. K., Shenai, S. K. (2013). Economically Important Medicinal Plants, Campus Book International. 1st edition.

SEMESTER – IV

MJC-7 : Genetics

Course Objective

This course is designed to facilitate students to understand the basic concepts of genetics, especially Mendelian laws of inheritance and its variations. Chromosomal disorders leading to various genetic disorders, mutations etc. will be introduced.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand Mendelian laws of inheritance and its variations
CO2: Comprehend the effect of chromosomal abnormalities leading to genetic disorders
CO3: Know the details of mutations and their uses
CO4: Know about the sex determination and sex linked inheritance

MJC-7	Genetics (Theory: 5 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Mendelian inheritance: Mendel's experiments and principles of inheritance: back cross and test cross; gene interactions and modified dihybrid ratio-complementary, supplementary, duplicate and epistatic factor and inhibitory genes	14
2	Linkage and crossing over: Cytological basis of crossing over; Recombination frequency, two factor and three factor crosses; Interference and coincidence; Sex determination and sex linked inheritance; Cytoplasmic inheritance	14
3	Mutations: Types and induction (physical and chemical mutagens); Molecular basis of mutations and their role.	08
4	Chromosomes: Physical and chemical characteristics, Lampbrush chromosomes, B-chromosomes and polytene chromosomes; Chromosomal aberrations: Deletion, Duplication, Inversion, Translocation, Position effect, Euploidy and Aneuploidy, Polyploidy (types and role in evolution)	14
	TOTAL	**50**

Suggested Readings :

1. Gardner, E.J., Simmons, M.J., Snustad, D.P. (1991). Principles of Genetics, John Wiley & sons, India. 8th edition.
2. Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics, John Wiley & Sons Inc., India. 5th edition.
3. Klug, W.S., Cummings, M.R., Spencer, C.A. (2012). Concepts of Genetics, Benjamin Cummings, U.S.A. 10th edition.
4. Griffiths, A.J.F., Wessler, S.R., Carroll, S.B., Doebley, J. (2010). Introduction to Genetic Analysis, W. H. Freeman and Co., U.S.A. 10th edition.
5. Verma, P.S. Agarwal, V.K. (2010). Genetics, S. Chand & Company Pvt. Ltd. 2nd edition.
6. Singh, B.D. (2014). Genetics, Kalyani Publishers. 2nd edition.
7. Gupta P.K. (2001). Genetics, Rastogi Publication. 3rd edition.

SEMESTER – IV

MIC-4 (T): Morphology and Anatomy

Course Objective

This course will introduce the concept of tissue system, its relevance and presence in the plant body. Students will also acquire knowledge about normal and anomalous secondary growth in plant system. Tissue organization in relation to environment will be studied. Students will acquire the knowledge about the morphological features of plant.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Explain the tissue system in plants and their functions
CO2: Understand the normal and anomalous secondary growth in plants and their causes
CO3: Learn about the structural adaptations in plants growing in different environmental conditions
CO4: Describe the structure and function of periderm

MIC-4	Morphology and Anatomy (Theory: 2 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Brief account of inflorescence, flowers, fruits and seeds	05
2	Meristem and permanent tissue.	05
3	Normal secondary growth; Anomalous secondary growth in *Tinospora, Boerhaavia,* and *Dracaena*	05
4	Organization of tissue in relation to environment: Hydrophytes, Xerophytes, Halophytes and Epiphytes	05
	TOTAL	**20**

Suggested Readings :

1. Dickison, W.C. (2000). Integrative Plant Anatomy, Harcourt Academic Press, USA.
2. Fahn, A. (1974). Plant Anatomy, Pergmon Press, USA.
3. Mauseth, J.D. (1988). Plant Anatomy, The Benjamin/Cummings Publisher, USA.
4. Esau, K. (1977). Anatomy of Seed Plants, John Wiley & Sons, Inc., Delhi.
5. Vasishtha, P.C. (2004). Plant Anatomy, Pradeep Publication. 17th edition.
6. Singh S.K. Srivastava. S. (2014). Anatomy of angiosperms, Campus Books International. 1st edition.

MIC-4	Morphology and Anatomy (Practical: 1 credit)	No. of Classes
Practical		**20**
1.	Study of anatomical details through slides/ Photographs	
2.	Study of morphological and anatomical adaptations in hydrophytes and xerophytes through specimens and slide	

SEMESTER – V

MJC-8 (T): Molecular Biology

Course Objective

Hereditary material DNA and RNA will be introduced. Concepts like transcription, translation and gene regulation in both prokaryotes and eukaryotes will be explained. Students will also have an understanding of various modern biological techniques. The techniques gained through hands- on methods opens a choice of joining the industrial laboratory work force after graduation.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Decipher the structures and chemical properties of DNA and RNA and their role
CO2: Understand various steps in transcription and translation in prokaryotes and eukaryotes
CO3: Know about gene regulation in prokaryotes and eukaryotes
CO4: Gain knowledge of modern biology techniques

MJC-8 (T)	**Molecular Biology (Theory: 3 credits)**	
Unit	**Topics to be covered**	**No. of Lectures**
1	Nucleic acids: structures of DNA and RNA, forms of DNA, DNA replication and role of DNA polymerases, different forms of RNA and their role, Genetic code	12
2	Central dogma, Transcription and Translation in prokaryotes and eukaryotes	10
3	Gene regulation in prokaryotes (Lac operon) and eukaryotes	08
4	Blotting techniques: northern, southern & western blotting, DNA fingerprinting, Gel Electrophoresis, Polymerase Chain Reaction	10
	TOTAL	**40**

Suggested Readings:

1. Watson J.D., Baker, T.A., Bell, S.P., Gann, A., Levine, M., Losick, R. (2007). Molecular Biology of the Gene, Pearson Benjamin Cummings, CSHL Press, New York, U.S.A. 6th edition.
2. Klug, W.S., Cummings, M.R., Spencer, C.A. (2009). Concepts of Genetics. Benjamin Cummings. U.S.A. 9th edition.
3. Russell, P. J. (2010). Genetics- A Molecular Approach. Benjamin Cummings, U.S.A. 3rd edition.
4. Griffiths, A.J.F., Wessler, S.R., Carroll, S.B., Doebley, J. (2010). Introduction to Genetic Analysis, W. H. Freeman and Co., U.S.A. 10th edition.
5. Karp Gerald (2010). Cell Biology, John Willey and Sons., Inc. 6th edition

MJC-8 (P)	**Molecular Biology (Practical: 2 credits)**	**No. of Classes**
Practical 1. DNA isolation from plant sources. 2. DNA estimation by diphenylamine reagent/UV Spectrophotometry 3. Study of DNA replication mechanisms through photographs 4. Study of structures of prokaryotic RNA polymerase and eukaryotic RNA polymerase II through photographs		40

SEMESTER – V

MJC-9 (T): Plant Ecology and Phytogeography

Course Objective

This course is designed to develop an in depth knowledge of the core concepts and principles of ecology and phytogeography. Students will acquire information about soil properties, types of pollution and biogeochemical cycles. Students will also get to understand the importance of conservation of biodiversity, and important climatic events like global warming and ozone hole.

Course Outcomes

After the completion of the course, the student will have to:

CO1: Knowledge of plant communities and ecological adaptations in plants
CO2: Understand about the soils on the basis of physical, chemical and biological components
CO3: Know about the types of pollution and their control measures
CO4: Get idea about the conservation of biodiversity, types and control of pollution phyto-geographical regions of India and non-conventional energy

MJC-9 (T)	**Plant Ecology and Phytogeography (Theory: 3 credits)**	
Unit	**Topics to be covered**	**No. of Lectures**
1	Environment, Ecology, Biosphere, Biome, habitat, niche; Adaptation of hydrophytes and xerophytes Biotic interactions: Beneficial and harmful interactions (symbiosis, commensalism, amensalism, herbivory, predation, parasitism)	06
2	Population ecology: Characteristics and Regulations Community ecology: Concept of ecological amplitude; Characters: analytical and synthetic; Ecotone and edge effect; Dynamics: succession (Hydrosere and Xerosere) Ecosystem: Structure and function of ecosystem, food chains and webs, Principles and models of energy flow, ecological pyramids	12
3	Soil: Origin, Formation, Composition (Physical, Chemical and Biological), Soil profile and importance Water: Precipitation types (rain, fog, snow, hail, dew), Soil water and Water table	10
4	Biogeochemical cycles: Gaseous and sedimentary cycles, Hydrological cycle Environmental pollution: Air pollution, water pollution, noise pollution, radioactive pollution and their control measures, global Warming and Ozone hole Phytogeography: Major vegetational belts of India, Basic concept of wetlands with special reference to Bihar; Conservation of biodiversity	12
	TOTAL	**40**

Suggested Readings :

1. Odum, E.P. (2005). Fundamentals of ecology, Cengage Learning India Pvt. Ltd., New Delhi. 5th edition.
2. Singh, J.S., Singh, S.P., Gupta, S. (2006). Ecology Environment and Resource Conservation, Anamaya Publications, New Delhi, India.
3. Sharma, P.D. (2010). Ecology and Environment, Rastogi Publications, Meerut, India. 8th edition.
4. Wilkinson, D.M. (2007). Fundamental Processes in Ecology: An Earth Systems Approach, Oxford University Press. U.S.A.
5. Dash, M.C., Dash, S.P. (2009). Fundamentals of Ecology, Tata McGraw Hill. 3rd edition.
6. Shukla, R.S., Chandel, P.S. (2010). A text book of Plant Ecology, S. Chand & Company Pvt. Ltd. 2nd edition.

MJC-9 (P)	Plant Ecology and Phytogeography (Practical: 2 credits)	No. of Classes
	1. Determination of pH of various soil and water samples 2. Analysis for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency from two soil samples by rapid soil tests 3. Study of morphological and anatomical adaptations of hydrophytes and xerophytes 4. Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite (*Orobanche*) Epiphytes, Predation (Insectivorous plants) through specimens/photographs 5. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law 6. Quantitative analysis of herbaceous vegetation for density and abundance in the college campus field visit	40

SEMESTER – V

MIC-5: Economic Botany

Course Objective

Students will acquire sound theoretical knowledge and understanding of the botanical characteristics, economic importance and distribution pattern of crops, fruits, vegetables, timber and fiber-yielding plants etc. Students will also study uses of medicinal, sugar and starch yielding plants.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Create awareness about plants of economic importance
CO2: Know about their distribution patterns
CO3: Identify them on the basis of their botanical features
CO4: Learn about their cultivation and economic importance

Unit	MIC-5 Economic Botany (Theory: 3 credits)	
	Topics to be covered	**No. of Lectures**
1	Botanical characteristics, cultivation and uses of Cereals (Wheat), Legumes (Garden pea), Oil and Fats (Mustard) yielding plants	10
2	Botanical characteristics, cultivation and uses of Spices (Chilli), Fruits and Vegetables (Mango, Brinjal)	10
3	Botanical characteristics, cultivation, processing and uses of Beverages (Tea), Timber and Fiber yielding plant (Sal, Cotton) Botanical characteristics, cultivation and uses of five Medicinal plants	10
	TOTAL	30

Suggested Readings :

1. Kochhar, S.L. (2012). Economic Botany in Tropics, MacMillan & Co. New Delhi, India.
2. Wickens, G.E. (2001). Economic Botany: Principles & Practices, Kluwer Academic Publishers, The Netherlands.
3. Chrispeels, M.J. and Sadava, D.E. (2003). Plants, Genes and Agriculture, Jones & Bartlett Publishers.
4. Pandey, B.P. (2005). Economic Botany, S. Chand & Company Pvt. Ltd. 6th edition.
5. Kochner, S.N. (2016). Economic Botany: A Comprehensive Study, Cambridge University Press. 5th edition.
6. Sharma, V. K., Shenai, S. K. (2013). Economically Important Medicinal Plants, Campus Book International. 1st edition.

Arya, P.S. (2000). Spice Crops of India, Kalyani Publishers.

SEMESTER – V

MIC-6: Genetics

Course Objective

This course is designed to facilitate students to understand the basic concepts of genetics, especially Mendelian laws of inheritance and its variations. Chromosomal disorders leading to various genetic disorders, mutations etc. will be introduced.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand Mendelian laws of inheritance and its variations
CO2: Comprehend the effect of chromosomal abnormalities leading to genetic disorders
CO3: Know the details of mutations and their uses
CO4: Know about the sex determination and sex linked inheritance

MIC-6	Genetics (Theory: 3 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Mendelian inheritance:** Mendel's experiments and principles of inheritance: back cross and test cross; gene interactions and modified dihybrid ratio-complementary, supplementary	10
2	**Linkage and crossing over:** Cytological basis of crossing over; Sex determination and sex linked inheritance; Cytoplasmic inheritance	05
3	**Mutations:** Types and induction (physical and chemical mutagens); Molecular basis of mutations and their role	05
4	**Chromosomes:** Physical and chemical characteristics, Lampbrush chromosomes and polytene chromosomes Chromosomal aberrations: Deletion, Duplication, Inversion, Translocation, Polyploidy (types and role in evolution)	10
	TOTAL	30

Suggested Readings :

1. Gardner, E.J., Simmons, M.J., Snustad, D.P. (1991). Principles of Genetics, John Wiley & sons, India. 8th edition.
2. Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics, John Wiley & Sons Inc., India. 5th edition.
3. Klug, W.S., Cummings, M.R., Spencer, C.A. (2012). Concepts of Genetics, Benjamin Cummings, U.S.A. 10th edition.
4. Verma, P.S. Agarwal, V.K. (2010). Genetics, S. Chand & Company Pvt. Ltd. 2nd edition.
5. Singh, B.D. (2014). Genetics, Kalyani Publishers. 2nd edition.
6. Gupta P.K. (2001). Genetics, Rastogi Publication. 3rd edition.

SEMESTER – VI

MJC-10 (T): Plant Systematics

Course Objective

The aim of this course is to acquaint the students with the systematic arrangement of plants based on their characteristics and different systems of plant classification. Students will acquire knowledge of botanical nomenclature as per ICBN. Tools and techniques of herbarium preparation will be taught.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Identify and classify the local flora
CO2: Know about the rules of ICBN
CO3: Awareness of different systems of Plant Classification
CO4: Preparation of herbarium and its importance

MJC-10 (T)	**Plant Systematics (Theory: 3 credits)**	
Unit	**Topics to be covered**	**No. of Lectures**
1	Systematics, Concept of taxa (family, genus, species); Categories and taxonomic hierarchy; Species concept (taxonomic, biological, evolutionary) Botanical nomenclature: Idea about important rules of plant nomenclature as per ICBN	12
2	Classification of plants as proposed by Bentham & Hooker and Hutchinson	08
3	Floral characteristics and economic importance of following families: Ranunculaceae, Asclepiadaceae, Apocynaceae, Amaranthaceae, Euphorbiaceae, Lamiaceae, Cyperaceae and Poaceae	10
4	Phylogeny of Angiosperms: Terms and concepts of primitive and advanced, homology and analogy, origin & evolution of angiosperms, methods of illustrating evolutionary relationship (phylogenetic tree, cladogram)	10
	TOTAL	**40**

Suggested Readings:

1. Singh, G. (2012). Plant Systematics: Theory and Practice, Oxford & IBH Pvt. Ltd., New Delhi. 3rd edition.
2. Jeffrey, C. (1982). An Introduction to Plant Taxonomy, Cambridge University Press, Cambridge.
3. Judd, W.S., Campbell, C.S., Kellogg, E.A., Stevens, P.F. (2002). Plant Systematics-A Phylogenetic Approach, Sinauer Associates Inc., U.S.A. 2nd edition.
4. Radford, A.E. (1986). Fundamentals of Plant Systematics, Harper and Row, New York.
5. Sharma, O.P. (2016). Plant Taxonomy, McGraw Hill Edication Pvt. Ltd. 2nd edition.
6. Sambamurthy, A.V.S.S. (2005). Taxonomy of anigiosperms, I.K. International Pvt. Ltd. 1st edition.

MJC-10 (P)	Plant Systematics (Practical: 1 credit)	No. of Classes
Practical : 1. Study of vegetative and floral characters of the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification): Ranunculaceae, Lamiaceae, Apocynaceae, Amaranthaceae, Asclepiadaceae, Euphorbiaceae and Cyperaceae 2. Preparation of Herbarium sheets (to be submitted in the record book)		40

SEMESTER – VI

MJC-11 (T): Reproductive Biology of Angiosperms

Course Objective

Students will be able to comprehend complete details about the structures, and development of embryo at different stages including gametogenesis, fertilization, etc. Students will be able to understand detailed characteristics of anther and pollen biology, ovule, endosperm, apomixis and polyembryony.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Know about the sporogenesis and gametogenesis.
CO2: Understand structure and functions of anther wall and pollen wall, pollen biology.
CO3: Learn detailed study of double fertilization, endosperm and embryo.
CO4: Comprehend the causes of polyembryony and apomixes.

MJC-11 (T)	Reproductive Biology of Angiosperms (Theory: 3 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Anther: Structure and functions of anther wall, microsporogenesis and microgametogenesis; Palynology and scope (a brief account); Pollen viability, germination; Abnormal features: Pseudomonads, polyads, massulae, pollinia	10
2	Ovule: Structure and Types; Special structures–endothelium, obturator, aril, caruncle and hypostase; Female Gametophyte (Types of Embryo sacs) and megagametogenesis (details of *Polygonum* type); Organization and ultrastructure of mature embryo sac; Double fertilization Endosperm: Types, development and its morphological natures	16
3	Embryo: General pattern of development of dicot and monocot embryo	08
4	Apomixis & Polyembryony – Definition, types and applications	06
	TOTAL	40

Suggested Readings :

1. Bhojwani, S.S. and Bhatnagar, S.P. (2011). The Embryology of Angiosperms, Vikas Publishing House. Delhi. 5th edition.
2. Shivanna, K.R. (2003). Pollen Biology and Biotechnology, Oxford and IBH Publishing Co. Pvt. Ltd. Delhi.
3. Raghavan, V. (2000). Developmental Biology of Flowering plants, Springer, Netherlands.
4. Johri, B.M. I (1984). Embryology of Angiosperms, Springer-Verlag, Netherlands.
5. Johri, B.N. Ambegaokar, K.B., Srivastava, P.S. (2015). Comparative Embryology of Angiosperms, Vol. 1 & 2. Springer. 1st edition.

MJC-11 (P)	Reproductive Biology of Angiosperms (Practical: 2 credits)	No. of Classes
Practical : 1. Photographs/slides of pollen grains of families: Malvaceae, Liliaceae, Asteraceae and Poaceae 2. Study of anther, ovule, double fertilization, endosperm and embryo through slide/photographs/ppt 3. Models of the above topics to be submitted by the students		40

SEMESTER – VI

MJC-12(T): Plant Physiology

Course Objective

The course aims at making students realize how plants function, namely the importance of water, minerals, hormones, and light in plant growth and development; understand water transport mechanisms in xylem and translocation of solute in the phloem.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand Water relation of plants with respect to various physiological processes
CO2: Know about the mineral nutrition
CO3: Understand dormancy and germination in plants; learn about types and roles of phytohormones

MJC-12 (T)	Plant Physiology (Theory: 3 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Plant water relationship: Imbibition, diffusion and osmosis; Water Potential and its components; Active and passive absorption and transport of water and solutes; Ascent of sap; Transpiration and factors affecting transpiration, mechanism of stomatal movement and factors controlling it Transport of organic substances: Path and mechanism of translocation	12
2	Mineral nutrition: Macro and micronutrients and their role in plant nutrition; nutrient uptake and transport mechanisms. role of carriers	06
3	Phytohormones: Discovery, chemical nature (basic structure), bioassay and physiological roles of Auxin, Gibberellins, Cytokinin, Abscisic acid and Ethylene	12
4	Physiology of flowering: Photoperiodism and vernalization; Plant movements, plant growth	10
	TOTAL	**40**

Suggested Readings :

1. Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology, John Wiley and Sons. U. S.A. 4th edition.
3. Bajracharya D. (1999). Experiments in Plant Physiology-A Laboratory Manual, Narosa Publishing House, New Delhi.
4. Jain V. K. (2014). Fundamentals of Plant Physiology, S. Chand & Company Ltd. 16th Revised edition
5. Verma V. (2016). Plant Physiology, Athena Academic. 2nd edition.
6. Mazumdar, B.C. (2005). Photoperiodism and Vernalization in Plants, Daya Publishing House. 1st edition.
7. Mukherji, S., Gosh, A.K. (1996). Plant Physiology, New Central Book Agency (P) Ltd. 1st edition.

MJC-12 (P)	Plant Physiology (Practical: 2 credits)	No. of Classes
Practical : 1. Determination of the rate of transpiration by using Farmer's and Ganong's Potometer 2. Determination of the amount of water absorbed and transpired by a plant, using T/A apparatus 3. Study of different types of stomata 4. To compare the rate of imbibition of oily and starchy seeds 5. Study of effect of sugar concentrations on leaf cell by plasmolytic method **Demonstration experiments** 1. Bell jar experiment 2. Wilmott's bubbler method 3. Demonstration of osmosis using potato		**40**

SEMESTER – VI

MIC-7 (T): Plant Ecology and Phytogeography

Course Objective

This course is designed to develop in depth knowledge of the core concepts and principles of ecology and phytogeography. Students will acquire information about soil properties, types of pollution and biogeochemical cycles. Students will also get to understand the importance of conservation of biodiversity, and important climatic events like global warming and ozone hole.

Course Outcomes

After the completion of the course, the student will have to:

CO1: Knowledge of plant communities and ecological adaptations in plants
CO2: Knowledge about the succession and soils on the basis of physical, chemical and biological components
CO3: Know about the types of pollution and their control measures
CO4: Knowledge about the types and control of pollution, phyto-geographical regions of India

MIC-7	Plant Ecology and Phytogeography (Theory: 3 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Environment, Ecology, Biosphere, Biome, habitat, niche; Adaptation of hydrophytes and xerophytes Biotic interactions: Beneficial and harmful interactions (symbiosis, commensalism, amensalism, herbivory, predation, parasitism)	6
2	Community ecology: Concept of ecological amplitude; Characters: analytical and synthetic; Dynamics: succession (Hydrosere and Xerosere) Ecosystem: Structure and function of ecosystem, food chains and webs, Principles and models of energy flow, ecological pyramids	10
3	Soil: Origin, Formation, Composition (Physical, Chemical and Biological) Soil profile and importance	4
4	Biogeochemical cycles: Gaseous cycles Environmental pollution: Air pollution, water pollution, noise pollution, radioactive pollution and their control measures, global Warming and Ozone hole Phytogeography: Major vegetational belts of India	10
	TOTAL	30

Suggested Readings:

1. Odum, E.P. (2005). Fundamentals of ecology, Cengage Learning India Pvt. Ltd., New Delhi. 5th edition.
2. Singh, J.S., Singh, S.P., Gupta, S. (2006). Ecology Environment and Resource Conservation, Anamaya Publications, New Delhi, India.
3. Sharma, P.D. (2010). Ecology and Environment, Rastogi Publications, Meerut, India. 8th edition.
4. Wilkinson, D.M. (2007). Fundamental Processes in Ecology: An Earth Systems Approach, Oxford University Press. U.S.A.
5. Dash, M.C., Dash, S.P. (2009). Fundamentals of Ecology, Tata McGraw Hill. 3rd edition.
6. Shukla, R.S., Chandel, P.S. (2010). A text book of Plant Ecology, S. Chand & Company Pvt. Ltd. 2nd edition.

SEMESTER – VI

MIC-8 (T): Plant Systematics

Course Objective

The aim of this course is to acquaint the students with the systematic arrangement of plants based on their characteristics and different systems of plant classification. Students will acquire knowledge of botanical nomenclature as per ICBN. Tools and techniques of herbarium preparation will be taught.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Identify and classify the local flora
CO2: Know about the rules of ICBN
CO3: Awareness of Plant Classification
CO4: Preparation of herbarium and its importance

MIC-8	Plant Systematics (Theory: 2 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Systematics, Concept of taxa (family, genus, species); Categories and taxonomic hierarchy; Species concept (taxonomic, biological, evolutionary) Botanical nomenclature: Idea about important rules of plant nomenclature as per ICBN	08
2	Classification of plants as proposed by Bentham & Hooker	03
3	Floral characteristics and economic importance of following families: Ranunculaceae, Apocynaceae, Euphorbiaceae and Cyperaceae	10
	TOTAL	48

Suggested Readings :

1. Singh, G. (2012). Plant Systematics: Theory and Practice, Oxford & IBH Pvt. Ltd., New Delhi. 3rd edition.
2. Judd, W.S., Campbell, C.S., Kellogg, E.A., Stevens, P.F. (2002). Plant Systematics-A Phylogenetic Approach, Sinauer Associates Inc., U.S.A. 2nd edition.
3. Radford, A.E. (1986). Fundamentals of Plant Systematics, Harper and Row, New York.
4. Sharma, O.P. (2016). Plant Taxonomy, McGraw Hill Education Pvt. Ltd. 2nd edition.
5. Sambamurthy, A.V.S.S. (2005). Taxonomy of anigiosperms, I.K. International Pvt. Ltd. 1st edition.

MIC-8	Plant Systematics (Practical: 1 credit)	No. of classes
Practical : 1. Study of vegetative and floral characters of the above families. 2. Preparation of Herbarium sheets (to be submitted in the record book)		**20**

SEMESTER – VII

MJC-13: Plant Metabolism

Course Objective

Students will have a comprehensive study of different pathways of carbon assimilation including their biochemistry and molecular details. To gain the knowledge of physiological and biochemical processes in the plant system especially its photosynthetic and respiratory pathways. Biological nitrogen fixation in legumes and non-leguminous plants will be taught.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the anabolic and catabolic pathways of metabolism
CO2: Recognize the importance of carbon assimilation in photorespiration
CO3: Understand ATP synthesis in respiration
CO4: Interpret the biological nitrogen fixation

MJC-13	Plant Metabolism (Theory: 5 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	Concept of metabolism, regulation of metabolism, role of regulatory enzymes (allosteric, covalent modulation and isozymes)	06
2	Photosynthesis: photosynthetic apparatus, pigments, photochemical reactions, electron transport pathways in chloroplast membranes, photophosphorylation, Calvin Cycle, Crassulacean Acid Metabolism, Hatch & Slack pathway; Photorespiration	14
3	Respiration: Glycolysis, TCA Cycle; oxidative phosphorylation, Pentose Phosphate Pathway, Respiratory quotient	12
4	Biological nitrogen fixation (examples of legumes and non-legumes)	08
	TOTAL	**40**

Suggested Readings :

1. Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology, John Wiley and Sons. U. S.A. 4th edition.
2. Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development, Sinauer Associates Inc. USA. 6th edition.
4. Bajracharya D. (1999). Experiments in Plant Physiology-A Laboratory Manual, Narosa Publishing House, New Delhi.
5. Jain V. K. (2014). Fundamentals of Plant Physiology, S. Chand & Company Ltd. 16th Revised edition.
6. Verma V. (2016). Plant Physiology, Athena Academic. 2nd edition.
7. Harborne, J.B. (1973). Phytochemical Methods, John Wiley & Sons. New York.
8. Pathak, V.N., Khatri, N.K., Pathak, M. (2012). Fundamental of Plant Physiology, Agribios. 5th edition.

SEMESTER – VII

MJC-14: Research Methodology of Faculty of Science

SEMESTER – VII

MJC-15 (T): Recombinant DNA technology and Plant Biotechnology

Course Objective

The objective of the course is to give students new knowledge and widening of the knowledge acquired in other courses by handling of classical and modern plant biotechnology processes, including tissue culture for healthy plants, plants with improved characteristics. This course explores the use of biotechnology to both generate genetic variation in plants and to understand how factors at the cellular level contribute to the expression of genotypes and hence to phenotypic variation. Understanding of biotechnological processes such as recombinant DNA technology and its applicative value in pharmaceuticals, food industry (transgenic crops), agriculture etc This knowledge is central to our ability to modify plant responses and properties for global food security and commercial gains in biotechnology and agriculture.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Have knowledge about the core enzymes involved in Recombinant DNA Technology
CO2: Have knowledge about the different steps of Recombinant DNA Technology
CO3: Understand the principle and basic protocols for Plant Tissue Culture and its application
CO4: Know about the role of rDNA and Plant Biotechnology as well as biosafety concerns of GMO

MJC-15 (T)	**Recombinant DNA technology and Plant Biotechnology (Theory: 4 credits)**	
Unit	**Topics to be covered**	**No. of Lectures**
1	**rDNA technology:** History; Major enzymes used: Restriction enzymes-types and cleavage pattern; DNA ligase- types and ligation process. Steps of Genetic engineering: Selection of cloning vectors- Plasmids (natural, pBR322), Phages, cosmid.	10
2	**Passenger DNA:** Different strategies used for isolation/synthesis of gene; Construction of genomic and cDNA libraries **Construction of rDNA:** Different strategies for construction of rDNA. **Methods of DNA transfer in suitable host:** electroporation, microinjection, particle gun method. **Selection strategies:** Different methods for selection of clone (antibiotic resistant markers, colony hybridization, immune-screening) Expression of foreign gene	12
3	**Plant Tissue Culture:** Basic aspect, totipotency, organogenesis, embryogenesis (somatic and zygotic), Role of plant tissue culture in growth, development and differentiation, anther culture and their applications micro-propagation Germplasm conservation, Cryopreservation	10
4	Application of Recombinant DNA technology: In medicine (Humulin) and Agriculture (Bt-cotton, Flavr Savr tomato, Golden rice). Biosafety concerns on GMO	08
	TOTAL	**40**

Suggested Readings :

1. Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice, Elsevier Science Amsterdam. The Netherlands.
2. Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA, ASM Press, Washington.
3. Singh, B.D. (2012). Biotechnology : Expanding Horizons, Kalyani Publishers, 4th edition.
4. Dubey R.C. (2006). A text book of Biotechnology, S. Chand & Company Pvt. Ltd. 4th edition.

MJC-14 (P)	Recombinant DNA technology and Plant Biotechnology (Practical: 2 credits)	No. of Classes
	1. (a) Preparation of MS medium (b)Demonstration of *in vitro* sterilization and inoculation methods using leaf and nodal explants of tobacco, *Datura*, *Brassica* etc. 2. Study of anther, embryo and endosperm culture, micropropagation, somatic embryogenesis & artificial seeds through photographs 3. Study of steps of genetic engineering for production of Bt cotton, Golden rice, Flavr Savr tomato through photographs 4. Isolation of genomic DNA from cauliflower 4. Models on the above mentioned topics to be submitted by the students	40

SEMESTER – VII

MIC-9 (T): Plant Physiology

Course Objective

The course aims at making students realize how plants function, namely the importance of water, minerals, hormones, and light in plant growth and development; understand transport mechanisms and translocation in the phloem.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand Water relation of plants with respect to various physiological processes
CO2: Know about the mineral nutrition
CO3: Learn about types and roles of phytohormones

MIC-9	Plant Physiology (Theory: 4 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Plant water relationship:** Imbibition, diffusion and osmosis; Water Potential and its components; Active and passive absorption and transport of water and solutes; Ascent of sap; Transpiration and factors affecting transpiration, Transport of organic substances	20
2	**Mineral nutrition:** Macro and micronutrients and their role in plant nutrition	06
3	**Phytohormones:** Discovery, chemical nature (basic structure), bioassay and physiological roles of Auxin, Gibberellins and Cytokinin	14
	TOTAL	**40**

Suggested Readings :

1. Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development, Sinauer Associates Inc. USA. 6th edition.
2. Bajracharya D. (1999). Experiments in Plant Physiology-A Laboratory Manual, Narosa Publishing House, New Delhi.
3. Jain V. K. (2014). Fundamentals of Plant Physiology, S. Chand & Company Ltd. 16th Revised edition
4. Verma V. (2016). Plant Physiology, Athena Academic. 2nd edition.

SEMESTER – VIII

MJC-16: Horticultural Practices and Post-Harvest Technology

Course Objective

The course will let the students understand the basic scope and importance of horticulture and gain in-depth knowledge of various fruits, vegetables and ornamental plants. This course is also designed to facilitate the students to know the basic concept of post-harvest technology.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the scope and importance of horticulture
CO2: Obtain knowledge of different fruits, vegetables and ornamental plants.
CO3: Know the basics of horticulture practices for fruits, vegetables and ornamental plants
CO4: Understand the importance of Post-harvest technology.

MJC-16	Horticultural Practices and Post-Harvest Technology (Theory: 4 credits)	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction:** Scope and importance, Branches of horticulture; Role in rural economy and employment generation; Urban horticulture and ecotourism.	02
2	**Ornamental plants:** Types, classification (annuals, perennials, climbers and trees); Identification and salient features of some ornamental plants [rose, marigold, gladiolus, carnations, poppies, tuberose, cacti and succulents **Fruit and vegetable crops:** Production, origin and distribution; Description of plants and their economic products; Management and marketing of vegetables and fruits; Identification of some fruits and vegetables (citrus, banana, mango, chillies and cucurbits).	10
3	**Horticultural techniques:** Application of manure, fertilizers, nutrients and PGRs; Weed control; Biofertilizers, biopesticides; Irrigation methods (drip irrigation, surface irrigation, furrow and border irrigation); Hydroponics; Propagation Methods: asexual (grafting, cutting, layering, budding), sexual (seed propagation), Scope and limitations.	10
4	**Landscaping and garden design:** Planning and layout (parks and avenues); gardening traditions - Ancient Indian, European, Mughal and Japanese Gardens; Urban forestry; policies and practices. **Floriculture:** Cut flowers, bonsai, commerce (market demand and supply); Importance of flower shows and exhibitions.	08
5	**Post-harvest technology:** Importance of post harvest technology in horticultural crops; Evaluation of quality traits; Harvesting and handling of fruits, vegetables and cut flowers; Principles, methods of preservation and processing; Methods of minimizing loses during storage and transportation; Food irradiation - advantages and disadvantages; food safety. **Disease control and management:** Field and post-harvest diseases; Identification of deficiency symptoms; remedial measures and nutritional management practices.	10
	TOTAL	**40**

Suggested Readings:

1. Singh, D. & Manivannan, S. (2009). Genetic Resources of Horticultural Crops. RidhiInternational, Delhi, India.
2. Swaminathan, M.S. and Kochhar, S.L. (2007). Groves of Beauty and Plenty: An Atlas ofMajor Flowering Trees in India. Macmillan Publishers, India.
3. NIIR Board (2005). Cultivation of Fruits, Vegetables and Floriculture. National Institute ofIndustrial Research Board, Delhi.
4. Kader, A.A. (2002). Post-Harvest Technology of Horticultural Crops. UCANR Publications,USA.

SEMESTER – VIII

MIC-10: Horticultural Practices

Course Objective

The course will let the students understand the basic scope and importance of horticulture and gain in-depth knowledge of various fruits, vegetables and ornamental plants.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the scope and importance of horticulture
CO2: Obtain knowledge of different fruits, vegetables and ornamental plants.
CO3: Know the basics of horticulture practices for fruits, vegetables and ornamental plants
CO4: Understand the importance of Post-harvest technology.

MIC-10	**Horticultural Practices (Theory: 4 credits)**	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction:** Scope and importance, Branches of horticulture; Role in rural economy and employment generation; Urban horticulture and ecotourism.	08
2	**Ornamental plants:** Types, classification (annuals, perennials, climbers and trees); Identification and salient features of some ornamental plants [rose, marigold, carnations, cacti and succulents **Fruit and vegetable crops:** Production, origin and distribution; Description of plants and their economic products; Management and marketing of vegetable and fruit crops; Identification of some fruits and vegetable varieties banana, mango, chillies and cucurbits).	16
3	**Horticultural techniques:** Application of manure, fertilizers, nutrients and PGRs; Weed control; Biofertilizers, biopesticides; Irrigation methods (drip irrigation, surface irrigation, furrow and borderirrigation); Propagation Methods: asexual (grafting, cutting, layering, budding)	16
	TOTAL	**40**

Suggested Readings :

1. Singh, D. & Manivannan, S. (2009). Genetic Resources of Horticultural Crops. Ridhi International, Delhi, India.
2. Swaminathan, M.S. and Kochhar, S.L. (2007). Groves of Beauty and Plenty: An Atlas ofMajor Flowering Trees in India. Macmillan Publishers, India.
3. NIIR Board (2005). Cultivation of Fruits, Vegetables and Floriculture. National Institute ofIndustrial Research Board, Delhi.
4. Kader, A.A. (2002). Post-Harvest Technology of Horticultural Crops. UCANR Publications,USA

RP1: Project/Dissertation (12 Credits)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Acquire special/advanced knowledge through a project work with an advisory support of a teacher/faculty member

CO2: Apply knowledge involving / analyzing /exploring a real life situation / difficult problem

CO3: Practical work in the field and laboratory experiments will enhance skills in handling scientific instruments

CO4: Enhance presentation (writing and oral) skills

RP-1	**Project/Dissertation (12 Credits)**
Dissertation or project work as one Discipline Specific Elective paper (12 credits) in 8th Semester. **Dissertation/Project**: An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his/her own with an advisory support by a teacher/ faculty member is called dissertation/project. **Project work/Dissertation** is considered as a special course involving application of knowledge involving / analyzing /exploring a real life situation / difficult problem. A Project/Dissertation work would be of 12 credits. A Project/Dissertation work may be given in lieu of a discipline specific elective paper	

Component of CIA (For theory and Practical):

(i) One mid-semester written test (1x15) =	15 marks
(ii) Seminar/Quiz/Presentation/Assignment =	10 marks
(iii) Attendance and Conduct=	05 marks
Total=	**30 marks**

The question paper pattern of ESE shall consist of three parts-

Part A- Compulsory-consisting of object type/multiple choice type each carrying two marks- 10x2= 20 marks

Part B- Short answer Type- Four questions to be answered out of six questions each carrying five marks- 04x5=20 marks

Part C- Long Answer Type- Three questions to be answered out of Five questions each carrying ten marks- 03x10=30

To,
The Principal Secretary to Governor
Raj Bhavan, Patna

Subject:- Regarding submission of proposed course structure and uniform syllabus of Political Science Semester III to Semester VIII of 4 year under graduate.

Ref:- BSU (UGC)-02/2023 -1457/GS(I), Dated 14.09.2023.

Sir,

With compliance to your letter no. BSU (UGC)-02/2023 -1457/GS(I), Dated 14.09.2023 followed by above mentioned letter no., we are submitting the syllabus of Political Science (Major and Minor Courses) from III to VIII semester of 4-year under graduate course system as per UGC regulations.

Yours faithfully

Prof. Arvind Adityaraj
Professor,COCAS, PPU, Patna

Prof. Kundan Kumar Singh,Head,Department of Political Science, VKSU, Ara

Prof. Om Prakash Rai
Professor&Principal, Maharaja College, VKSU, Ara

Prof. Vibhu Kumar
Head, Department of Political Science, JPU, Chhapra

Prof. Shabnam Thakur
Professor, A. N.College, PPU, Patna

Prof. Rachna Suchinmayee
Professor, COCAS, PPU, Patna

Prof. Anil Kumar Singh,Professor of Political Science, VKSU, Ara

Prof. Khalid Hussain Siddiqui,
Professor of Political Science,R. N. College, BRABU, Muzaffarpur

Dr. Binod Kumar Jha,Associate Professor, A.N. College, PPU, Patna

Prof. Rakesh Ranjan
Professor of Political Science, Patna University, Patna

Dr Satyaditya Singh
Associate Professor,Deptt. of Political Science, J.M.S.College,MGRU, Munger

Dr Mukesh Kumar Jha
AssistantProfessor,Deptt. of Political Science, SMD College, Punpun, Patliputra Univ., Patna

Dr. Divya Mishra
Assistant Professor of Political Science, MU, Bodh Gaya

Mr.Gangesh Kumar Jha
Assistant Professor, UDPS, L.N.M.U.,Darbhanga

Dr. Dewendra Pratap Tiwari
Assistant Professor of Political Science, BRABU, Muzaffarpur

Enclosed as above.

Syllabus for

MAJOR COURSES (MJC) in

POLITICAL SCIENCE

SEMESTER-III

(MJC 3 : POLITICAL THEORY - CONCEPTS AND DEBATES)

Major Course -MJC 3 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

The course will enable the student to understand and engage with the central concepts, debates and theories in the field of politics; and to identify and analyze the normative aspects of Political Philosophy.

Course Outcomes:

On completion of the course the student will be able to comprehend and analyze the various concepts examined by classical and contemporary Political Thinkers; to understand the basics of Political philosophy; and, to evaluate the core concepts of Political values as enunciated by the meta-narratives and their importance in Political and Social life.

Course Content:

MJC 3 : POLITICAL THEORY - CONCEPTS AND DEBATES (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Concept of Liberty: Positive & Negative Freedom as Emancipation and Development Important issues: Freedom of Expression and Dissent	10
2	Concept of Rights: Natural Rights; Moral and Legal Rights; Human Rights	10
2	Concept of Equality: Meaning and Types Egalitarianism: Inequalities and Differential Treatment Important Issues: Affirmative Action	09
3	Concept of Justice; Procedural justice; Distributive Justice; Global Justice Power, Authority and Legitimacy	13
4	Concept of Law: Political obligation and Civil Disobedience	08
	Total	50

Recommended Readings:

1. Johri, J. C. 1996. *Aadhunik Rajniti Vigyan Ke Siddhant*. Sterling Publisher.
2. Acharya, Ashok. 2008. 'Affirmative Action', in Rajeev Bhargava and Ashok Acharya (eds.) *Political Theory: An Introduction*. Pearson Longman.
3. Dadhich, Naresh. 2015. *Samsamyik Rajnitik Siddhant : Ek Parichay*. Rawat Books.
4. Nanarao, C. V. 1976. *Introduction to Modern Political Analysis*. Meenakshi Publications.
5. Johari, J. C. 1979. *Contemporary Political Theory*. Sterling Publication.
6. Gauba, O. P. 2009. *An Introduction to Political Theory*. Macmillan Publication.
7. Vinod, M. J. and Meena Deshpande. 2013. *Contemporary Political Theory*. PHI Learning Private Limited.
8. Held, David. 1991. *Political Theory Today*. Polity Press.

Additional Readings:

1. Arora, N. D. and S. S. Avasthi. 1997. *Rajnitik Siddhant*. Har-Anand Publications.
2. Kapur, A. C. 1950. *Principles of Political Science*. S Chand.
3. Bhagwan, Vishnu and Vidya Bhushan. 2005. *Political Theory: Principles and Concepts*. Kalyani Publishers.
4. Kumar, Sanjiv. 2021. *Rajniti Sidhant: Awadharnayen aur Vimarsh*. Sage Publication.
5. Jain, Pukhraj. 2020. *Rajnitik Sidhant*. Sahitya Bhawan Publication.
6. Roy, Gandhiji. 1994. *Rajnitik Siddhant*. Bharati Bhawan Publication.
7. Farrelly, Colin. 2003. *Contemporary Political Theory: A Reader*. Sage Publication.
8. Heywood, Andrew. 2022. *Political Theory: An Introduction*. Bloombury, Manohar Publisher.

SEMESTER-III

(MJC 4: POLITICAL PROCESS IN INDIA)

Major Course -MJC 4 **Theory – 40 Lectures**

Couse Credits – 04

Full Marks: 100

Course Objectives:

Politics cannot flourish in a vacuum. It requires a social foundation. This is the reason why Political structures function differently in various Political systems. Idealism in politics is often contested with realist approach. This paper will enable students to develop a pragmatic approach in understanding actual working of the Indian state amidst power equations and dynamics.

Course outcomes:

This course intends to achieve following outcomes: Developing analytical approach towards Political relations, actions and processes; Enhancing interdisciplinary approach in comprehending Political behaviour; Assessing the role of non-state actors in determining active participation; and, Examining the role of party system and interest groups in democratization of polity.

Course Content:

MJC 4: POLITICAL PROCESS IN INDIA (Credits: 4)		
Unit	**Topics to be covered**	**No. of Lectures**
1	(a) Political Parties and Party System in India: Nature & Trends (b) Role of Political Parties in the functioning of Indian democracy	8
2	(a) Elections in India: Issues and Challenges (b) Determinants of Voting Behaviour: Caste, Class, Gender, Religion, Language and Factions (c) Election Commission of India	7
3	Regionalism in Indian Politics: The politics of secession, accommodation and insurgencies.	5
4	(a) Issues of Secularism in Indian Politics (b) Politics of Mobilization and Identity Politics in India	8

5	Mainstreaming of the marginalized sections of the Society and affirmative action through constitutional provisions, legislative action and policies.	7
6	Threats to Indian Democracy: Corruption and Criminalization	5
	Total	**40**

Recommended Readings:

1. Mehta, Pratap Bhanu and Niraja Gopal Jayal. 2011. *The Oxford Companion to Politics in India*. Oxford University Press.
2. Basu, D.D. 1994. *An Introduction to the Constitution of India*. Prentice Hall.
3. Ghai, K.K. 2012. *Indian Government and Politics*. Kalyani Publishers.
4. Pylee, M.V. 1960. *Constitutional Government in India*. Asian Publishing House.
5. Kashyap, Subhash. 2021. *Our Constitution: An Introduction to the India's Constitution and Constitutional Law*. National Book Trust: New Delhi.
6. Kaushik, Sushila. 1984. *Bhartiya Sashan aur Rajniti*. Karyanwayan Nideshalaya Delhi University.
7. Roy, Gandhiji. 2023. *Bharatiya Samvidhan ke Mool Siddhant*. Bharati Bhawan Publication: Patna.
8. Kothari, Rajni. 1970. *Politics in India*. Boston, Little, Brown.
9. Brass, Paul R. 1994. *The Politics of India since Independence*. CUP.

Additional Readings:

1. Narang, A. S. 1996. *Indian Government and Politics*. Geetanjali Publishing House.
2. Chakrabarty, Bidyut and Rajendra Pandey. 2008. *Indian Government and Politics*. Sage.
3. Sheth, M. P. Krishna. 1969. *Fundament Rights and Socio-Economic Justice in the Indian Constitution*. Chaitanya Publishing House.
4. Kaushik, S. (ed.). 1990. *Indian Government and Politics*. Directorate of Hindi Implementation, Delhi University.
5. Raman, Sunder. 1988. *Indian Government and Politics*. Allied Publishers.
6. Jha, Binod Kumar. 2018. *Why Assam Rebelled? An Enquiry into the Political Economy of Regionalism in India*. Alankar: Delhi.
7. Jain, Pukhraj. 2018. *Bharatiya Shasan evam Rajniti*. Sahitya Bhawan Publications.

SEMESTER-IV

(MJC 5: INTRODUCTION TO COMPARATIVE GOVERNMENT AND POLITICS)

Major Course -MJC 5 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

Comparative Politics is a foundational course in which the students will understand the concept of comparative government and politics. The course will also focus on politics in a historical framework.

Course outcomes:

On completion of the course the students will understand:_Basic concept of Comparative Government and Politics. Historical framework of Comparative Politics. The various approaches for the study of Comparative Politics. The functioning of the different types of government in their respective Political system.

Course Content:

MJC 5: INTRODUCTION TO COMPARATIVE GOVERNMENT AND POLITICS) (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Comparative Politics: Meaning, Nature and Scope Constitutionalism; Elements and Features	10
2	**Historical context of modern government**	
	a. Capitalism: Meaning, Evolution and Relevance	04
	b. Socialism: Meaning, Growth and Development	04
	c. Colonialism, Anti-colonialism, Decolonization: Meaning and Process	06
3	**Themes for comparative analysis** A Comparative study of Institutional Developments in the following Countries:	
	a. Britain	07
	b. United States of America	07

	c. Switzerland	**06**
	d. People's Republic of China	**06**
	Total	**50**

Recommended Readings:

1. Mohanty, M. 1975. "Comparative Political Theory and Third World Sensitivity". *Teaching Politics*. Vol. 1 and 2.
2. Suresh, R. 2010. *Economy and Society: Evolution of Capitalism*. Sage Publication.
3. Ghai, K. K. 2019. *Major Government*. Kalyani Publication.
4. Gena, C. B. 2023. *Comparative Politics and Political Institutions*. Vikash Publishing House.
5. Singhal, S. C. 2020. *Tulnatmak Rajniti*. Laxmi Narain Agarwal Publication.

Additional Readings:

1. Roy, A. 2001. "Comparative Method and Strategies of Comparison". *Punjab Journal of Politics*, Vol. xxv (2).
2. Wood, E. M. 2002. "The Agrarian origin of Capitalism". In *Origin of Capitalism: A Longer View*. Verso.
3. Meek, R. 1957. The Definition of Socialism: A Comment. *The Economic Journal*, 67 (265).
4. Duara, P. 2004. "Introduction: The Decolonization of Asia and Africa in the Twentieth Century", in P. Duara, (ed), *Decolonization: Perspective from Now and Then*. Routledge.

SEMESTER-IV

(MJC 6: PERSPECTIVES ON PUBLIC ADMINISTRARION)

Major Course -MJC 6 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

After completion of the course, the students will be able to:

- Identify the meaning, nature and scope of Public Administration and distinguish it from Private Administration.
- Appraise the evolution of Public administration as an academic discipline.
- Develop an understanding of the major concepts & theories of Public Administration.
- The course will also attempt to provide and examine a comprehensive understanding on Contemporary Administrative Developments.

Course Outcomes

After completion of the course, the students will be able to understand and analyze the core concepts of Public Administration and its recent trends; to be able to compare the difference of viewpoint in different theories & concepts of Public Administration; and, to Identify, Facilitate and Examine contemporary theories of Public Administration.

Course Content:

MJC 6 : PERSPECTIVES ON PUBLIC ADMINISTRATION (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Public Administration: Meaning, Nature and Scope; Difference between Private and Public Administration,	10
2	New Public Administration: Meaning, Nature and Importance; New Public Management, Impact of Globalization on Public Administration	10
3	Theories of Administration: Classical Theory, (Fayol, Urwick and Gulick, Elton Mayo) Scientific Management Theory, (F.W.Taylor) Bureaucratic Theory, (Max Weber), Ecological Approach (Fred W. Riggs), Rational Decision Making (Herbert Simon)	15
4	Financial Administration: Meaning and Principles of	07

	Sound Budget, CAG	
5	Integrity in Administration, Redressal of Citizen's Grievances, Ombudsman and Lokayukta	08
	Total	**50**

Recommended Readings:

1. Bhattacharya, M. 2012. *Restructuring Public Administration: A New Look.* Jawahar Publishers.
2. Bhattacharya, M. 2011. *New Horizons of Public Administration.* Jawahar Publishers.
3. Rumki, Basu. 2014. *Public Administration: Concepts and Theories.* Sterling Publisher.
4. Singh, Hoshiar. 2011. *Lok Prashasan: Sidhhant aur Vhyavhar.* Pearson India.
5. Sharma, M. P. and B. L. Sadana. 2018. *Public Administration in Theory and Practice.* Kitab Mahal.
6. Maheshwari, S. 2009. *Administrative Thinkers.* Macmillan.

Additional Readings:

1. Henry, Nicholas. 1999. *Public Administration and Public Affairs.* Prentice Hall.
2. Wilson, W. 2004. "The Study of Administration". In B. Chakrabarty and M. Bhattacharya (eds), *Administrative Change and Innovation: A Reader.* Oxford University Press.
3. Dye, T. 1984. *Understanding Public Policy.* Prentice Hall.
4. Moan, M. Martin Rein, and Robert E. Goodin (eds.). 2006. *The Oxford Handbook of Public Policy.* Oxford University Press.
5. Munshi, Surendra and Biju Paul Abraham (eds.). 2004. *Good Governance, Democratic Societies and Globalisation.* Sage Publishers.

SEMESTER-IV

(MJC 7: PERSPECTIVES ON INTERNATIONAL RELATIONS AND WORLD HISTORY)

Major Course -MJC 7 **Theory – 50 Lectures**

Course Credits – 05

Full Marks: 100

Course Objectives:

This paper seeks to equip students with the basic intellectual tools for understanding International Relations. It introduces students to some of the most important theoretical approaches for studying International Relations. The course begins by historically contextualizing the evolution of the international state system before discussing the agency- structure problem through the levels of analysis approach. After having set the parameters of the debate, students are introduced to different theories and events in International Relations.

Course Outcomes:

This course provides a fairly comprehensive overview of the major theoretical constructs of International Relations, Political Developments and events starting from the twentieth century.

Students are expected to learn about the key milestones in world history and equip themselves with the tools to understand and analyze the same from different perspectives. A key objective of the course is to make students aware of the implicit Euro-centrism of International Relations by highlighting certain specific perspectives from the Global South.

Course Content:

MJC 7: PERSPECTIVES ON INTERNATIONAL RELATIONS AND WORLD HISTORY (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Studying International Relations:** (A) International Relations: Meaning, Nature & Scope (B) History of IR: Emergence of the International State System (C) Post-Westphalian International Order	10
2	**Theoretical Perspectives-1** (A) Idealism (B) Classical Realism & Neo- Realism (C) Liberalism & Neo liberalism	10

3	**Theoretical Perspectives-2** (A) Marxist Approaches (B) Feminist Perspectives (C) Eurocentricism and Perspectives from Global South	**10**
4	**An Overview of Twentieth Century IR History-1** (A) Rise of Nazism/Fascism (B) World War II: Causes and Consequences (C) Cold War: Meaning, Origin and its Different Phases (D) Emergence of the Third World	**10**
5	**An Overview of Twentieth century IR History-2** (A) Collapse of the USSR and the End of the Cold War (B) Post-Cold War Developments- US Unilateralism (C) Rise of China: Challenge to US Hegemony (D) Towards a Multipolar World Order: Emergence of Other Power Centres - India, Russia and European Union	**10**
	Total	**50**

Recommended Readings:

1. Goldstein, S. Joshua and J. Pevehouse. 2007. *International Relations*. Pearson.
2. Kumar, Mahendra and Nandlal. 2021. *Antarrashtriya Rajniti ke Saiddhantik Paksh*. Shiva Lal Agarwal & Company.
3. Pant, Pushpesh. 2019. *Antarrashtriya Rajniti*. Meenakshi Prakashan.
4. Art, Robert J. and R. Jervis. 2016. *International Politics: Enduring Concepts and Contemporary Issues*. Pearson Education.
5. Smith, M. and R. Little (eds). 2000. "Introduction". In *Perspectives on World Politics*. Routledge.
6. Jackson, Robert H. and Sorenson, G. 2007. *Introduction to International Relations: Theories and Approaches*. Oxford University Press.
7. Basu, Rumki. 2015. *Antarrashtriya Rajneeti: Avdharnaye, Siddhant tatha Mudde*. Sage Bhasha Publication, New Delhi.
8. Kumar, Ajay. 2011. *Antarrashtriya Sambandho ke Siddhant: Ek Parichay*. Pearson Education, Delhi.
9. Biswal, Tapan. 2016. *Antarrashtriya Sambandh*. The Orient Blackswan.

10. Heywood, Andrew. 2022. *Key Concepts in Politics and International Relations.* Manohar Publishers.

Additional Readings:

1. Nicholson, M. 2022. *International Relations: A Concise Introduction*. Palgrave.
2. Baylis, J., S. Smith and P. Owens. 2008. *The Globalization of World Politics: An Introduction to International Relations*. Oxford University Press.
3. Carr, E. 1981. *The Twenty Years Crisis, 1919-1939: An Introduction to the Study of International Relations*. Macmillan.
4. Halliday, F. 1994. Rethinking International Relations. Macmillan.
5. Acharya, A. and B. Buzan. 2007. "Why Is There No Non- Western IR Theory: Reflections from Asia". *International Relations of The Asia- Pacific*. Vol 7(3)

SEMESTER-V

(MJC 8: POLITICAL PROCESSES AND INSTITUTIONS IN COMPARATIVE PERSPECTIVE)

Major Course -MJC 8 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

The students will be trained in the application of comparative methods to the study of politics. It will focus on the study of Political Process and Institutions.

Course Outcomes:

On completion of the course the students will:

Understand the main concept of Comparative Politics and Process. Comprehend the approaches of Comparative Politics and Process. Assess the working of different Political system and their features.

Course Content:

MJC 8: POLITICAL PROCESSES AND INSTITUTIONS IN COMPARATIVE PERSPECTIVE (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Approaches to Studying Comparative Politics and Political Process: System Approach, Structural-Functional Approach	10
2	**Electoral System:** Meaning, Types and Working with special reference to India and USA	08
3	**Party System:** Historical contexts of emergence of the party system and types of parties with special reference to democratic and socialist regimes.	10
4	**Nation-state:** Meaning and Development Nation and State debates.	08
5	**Democratization:** Process of Democratization in post-colonial and post-communist countries	06

6	**Federalism:** Historical context of Federation and Confederation Concept of Cooperative Federalism	**08**
	Total	**50**

Recommended Readings:

1. Biswal, Tapan, *Comparative Politics*, (2013), Macmillan.
2. Heywood, A. *Representation Electoral and Voting in Politics*, (2002), Palgrave.
3. Johari, J.C, *Contemporary Political Theory*, Sterling Publisher
4. Kapoor, A.C, *Principles of Political Science*, S.Chand Publication.
5. Jain, P. *Tulnatmak Shasan evam Rajniti*, Sahitya Bhawan Publication.
6. Kaushik, Sushila. *Bharatiya Sashan evam Rajniti*. Delhi University Press.

Additional Readings:

1. Hall, P. Taylor and C. Rosemary, *Political Science and the Three New Institutionalism*, (1996), *Political Studies*. XLIV, .
2. R. Moser, and S. Ethan, 'Mixed Electoral Systems and Electoral System Effects: Controlled Comparison and Cross-national Analysis, (2004), in *Electoral Studies.*
3. B. Criddle, Parties and Party System, in R. Axtmann, (ed.) *Understanding Democratic Politics: An Introduction,* (2003), Sage Publications.
4. A. Heywood, *Politics,* (2002), Palgrave
5. B. Smith, 'Democratization in the Third World', in *Understanding Third World Politics: Theories of Political Change and Development,* (2003), Palgrave Macmillan,
6. Chilcote, R. H. *Theories of Comparative Politics*. Westview Press.
7. Sushila Ramaswamy and Subrato Mukherejj. *Theoretical Foundation of Caomparative Politics*. Orient Blackswan.

SEMESTER-V

(MJC 9: PUBLIC POLICY AND ADMINISTRATION IN INDIA)

Major Course -MJC 9 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

After completion of the course the students will be able to develop an understanding of evolution of the Indian Administrative System; to understand different concepts and issues related to Public Policy and Administration; and, to examine a comprehensive understanding on contemporary Administrative Developments.

Course Outcomes:

After completion of the course, the students will be able to understand and analyse the core concepts of Public Policies and its relation with Administration in India; to appraise the relation between Public Policy and Administration in India and its impact on citizen's delivery mechanism; and, to identify, facilitate and examine contemporary administrative developments in India.

Course Content:

MJC 9: PUBLIC POLICY AND ADMINISTRATION IN INDIA (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Public Policy: Meaning, Characteristics and Models; Public Policy Process in India	08
2	Decentralization: Meaning, Significance, Approaches and Types; Local Self Governance: Rural and Urban.	12
3	Budget: Concept and Significance; Various Approaches and Types of Budgeting. Budget Cycle in India.	12
4	Citizen and Administration Interface; Public Service Delivery; Redressal of Public Grievances; RTI; Lokpal; Citizens' Charter and E – Governance.	10
5	Social Welfare Administration: Concept and Approaches of Social Welfare; Social Welfare Policies; Education:	

	(a) Right to Education; **(b)** Health: Ayushman Bharat Yojna; **(c)** Food : Right to Food security (NFSA – 2013) **(d)** Employment: MNREGA (e) PM-Kisan Samman Nidhi	**8**
	Total	**50**

Recommended Readings:

1. Chakrabarty, Bidyut. Reinventing Public Administration: The Indian Experience, (2007), Orient Longman.

2. चक्रवर्ती, विद्युत एवं सी. प्रकाश (2017), भारतीय प्रशासन: विकास और पद्धति, सेज पब्लिकेशन ।

3. Awasthi & Awasthi (2017), Bhartiya Prashasan, Laxmi Narain Agarwal, Agra.

4. Bava, Noorjahan (2001), Development Policies and Administration in India, Uppal Publisher, Delhi.

5. Singh Satyajit and K. Sharma Pradeep (ed.) (2007), Decentralization: Institutions and Politics in Rural India, OUP.

6. Jayal, N.G. (1999), Democracy and The State: Welfare, Secular and Development in Contemporary India, Oxford University Press,

7. Jha, Rajani Ranjan (1997), Lokayukta: The Indian Ombudsman, Rishi Publication.

8. Tiwari, Dewendra Pratap (2016), MNREGA and Rural Development", Kunal Books Publisher and Distributers, New Delhi.

9. Fadia, B.L. & Fadia, Kuldeep (2017), Bharat me Lok Prashasan, Sahitya Bhavan, Agra.

Additional Readings:

1. Dye, T. (2016), Understanding Public Policy, Pearson.

2. Drèze Jean and Sen, Amartya (1995), India, Economic Development and Social Opportunity, Oxford University Press.

3. Denhardt R.B. and Denhardt, J.V. *Public Administration,* (2009), Brooks/Cole.

SEMESTER-VI
(MJC 10: GLOBAL POLITICS)

Major Course -MJC 10 **Theory – 40 Lectures**

Couse Credits – 04

Full Marks: 100

Course Objectives:

The Course will enable students to understand and engage with the central facts and theories in the field of International Studies. The students will identify and analyze the different issues of global politics and the global challenges facing the International System.

Course Outcomes:

The students will have conceptual clarity about meaning, nature and significance of Globalization. The students will learn about the contemporary debates on the discourse of Globalization. The course will make them understand about the rise of financial networks and their impact on State and Sovereignty. The paper will enhance students understanding of contemporary global issues like proliferation of nuclear weapons, international terrorism and human security. The papers will develop analytical skills of the students to reflect on the phenomenon of global governance.

Course Content:

Unit	Topics to be covered	No. of Lectures
1	Treaty of Westphalia,1648 Post-Westphelian State: Debates on Sovereignty and Territoriality	04
2	Global Economic Organizations: IMF, World Bank, WTO, BRICS, EU, ASEAN	08
3	India's Evolving Global Relations and Geopolitical Challenges, India's Soft Power Policy India's Relation with USA, Russia, and China India and its Neighbors: Pakistan, Sri Lanka, and Bangladesh	08
4	Contemporary Global Issues: Multilateral Organisation: SCO, G20 and QUAD (C)Proliferation of Nuclear Weapons : NPT, CTBT (D) International Terrorism : Cross Border Terrorism Non State Actors and State Terrorism, Post 9/11 Developments	12
5	Contemporary Global Issues: (A) International Migration and Refugee Question (B) Human Rights and Global Politics Humanitarian	08

	Intervention (C) Globalization: Concepts and perspectives and critique	
	Total	**40**

Recommended Readings:

1. I. Taylor, Kirsten W. Mansbach, Richard Introduction to Global Politics, (2016), Routledge
2. Ghai, U.R., Antrrastriya Rajniti,(2017), New Academic Publishing Co.
3. Pant.P., 21st Shatabdi me Antrrastriya Sambandh, (2020), McGrow Hill
4. Hirst, P. Thompson G. and Bromley, S. Globalization in Question, (2009), Cambridge University Press.
5. J. Volger, 'Environmental Issues', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, (2011), Oxford University Press

Additional Readings:

1. Ritzer, G. *Globalization: A Basic Text,* (2010), Wiley-Blackwell
2. Heywood, A. *Global Politics,* (2011), Palgrave-McMillan
3. Held D. and McGrew A. (eds.), *Global Transformations Reader: Politics, Economics and Culture*, (2002), Cambridge: Polity Press
4. Laxter G. and Halperin S. (eds.), *Global Civil Society and Its Limits,* (2003), Palgrave
5. Smith M. and Little, R. (eds.), *Perspectives on World Politics,* (2000), Routledge
6. Shukla Haridwar, global Politics; (2021) Mahaveer Publication
7. Shukla Haridwar, Politics of Globalization, (2021) Mahaveer Publication

Semester - VI

(MJC 11: CLASSICAL POLITICAL PHILOSOPHY)

Major Course -MJC 11 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

This paper deals with the distinctive features of classical Political philosophy. This is a basic foundation course for students. The course tries to make the students understand ancient, medieval and modern Political ideas.

Course Outcomes:

To develop analytical approach towards ancient, medieval and modern Political Philosophy. To provide an insight into the dominant features of Ancient Political Thought with focus on Plato and Aristotle. To analyse the medieval thought of Thomas Acquinas. To acquire knowledge about Political thinkers such as Machiavelli, Rousseau, Mill and their views.

Course Content:

MJC 11: CLASSICAL POLITICAL PHILOSOPHY (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Political Philosophy: An overview (a) Ancient (b) Roman (c) Medieval (d) Modern	15
2	Plato: Justice, Education, Philosopher King, Communism, Ideal State	13
3	Aristotle: Citizenship, Justice, Slavery, Revolution, Property, Critique of Plato	12
4	Thomas Acquinas: Theory of law, As representative of Medieval Political Thought	04
5	MachIavelli: Pragmatic Policies, Religion, Republicanism, Morality and Statecraft	06

	Total	50

Recommended Readings:

1. Suda, J.P., Paschatya Rajnitik Vicharo ka Itihas, (2017), K. Nath & Co.
2. Jha, Shefali, Western Political Thought, (2018), Pearson Education
3. Coleman, J. *A History of Political Thought: From Ancient Greece to Early Christianity,* (2000), Oxford: Blackwell Publishers
4. Gauba, O.P., Western Political Thought, (2016),Mayur Paperbacks
5. T. Burns, *Political Thinkers: From Socrates to the Present.* (2009), Oxford University Press.

Additional Readings:

1. Q. Skinner, *The Foundations of Modern Political Thought Volume I,* (2010), Cambridge University Press
2. S. Mukerjee, & S. Ramaswamy, *A History of Political Thought,*(1999), Prentice Hall
3. H. Sabine, George, *A History of Political Theory,* (1973), Oxford and I.B.H. Publishing,
4. E. Barker, *The Political Thought of Plato and Aristotle,* (1964), Dover Publications
5. C.L. Wayper, *Political Thought,* (1965), Hutchinson (Hindi Edition available)

Semester – VI

(MJC 12: INDIAN POLITICAL THOUGHT - I)

Major Course -MJC 12 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

This course introduces the specific elements and diverse spectrum of Indian Political Thought spanning over two millennia. The basic focus of study is on individual thinkers whose ideas are however framed by specific themes and which facilitated socio-Political transformation. The course as a whole is meant to provide a sense of the broad streams of Indian thought, while encouraging a specific knowledge of individual thinkers and texts. The ideas contain classical as well as medieval approaches to the issues in existence in the Indian society.

Course Outcomes:

To develop analytical approach towards ancient and medieval Indian Political thought. To provide an insight into the dominant features of Pre-colonial Indian Political thought. To identify and describe the key characteristics of Indian Political thought.

Course Content:

MJC 12: INDIAN POLITICAL THOUGHT - I (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Political System in Ancient India: Vedic Institutions: Sabha, Samiti and Vidath	09
	Political Philosophy in Mahabharat: Shanti Parva	09
2	Manu's Concept of State	06
3	Buddhist and Jain Philosophy	12
4	Schools of Ancient Indian Political Thought; Bhagwat Gita and Vedanta Darshan	06
5	Realist Tradition in Ancient India: Kautilya's Theory of State, Saptang, Mandal and Foreign Policy	08
	Total	50

Recommended Readings:

1. Varma, Vishwanth Prasad, Hindu Political Thought and Its Metaphysical Foundations, (1974) Motilal Banarsidass
2. Sharma, R.S. Aspects of Political ideas and institutions in Ancient India, Delhi, 1959.
3. Parekh, B. 'Some Reflections on the Hindu Tradition of Political Thought', in T. Pantham, and K. Deutsch (eds.), Political Thought in Modern India, (1986), Sage Publications.
4. Pantham & K. Deutsch (eds.), Political Thought in Modern India, (1986), Sage Publications.
5. Shakir M. 'Dynamics of Muslim Political Thought', in T. Pantham, and K. Deutsch (eds.), Political Thought in Modern India, (1986), Sage Publications.
6. Singhal, S.P., Prachin Bhartiya Rajnitik Chintan, (2016), Laxmi Narain Agarwal

Additional Readings:

1. G. Pandey, Sraman Tradition: Its History and Contribution to Indian Culture, (1978), Ahmedabad: L. D. Institute of Indology.
2. Appoadorai,A., Indian Political Thinking, (1971), Oxford University Press.
3. Sharma, R. 'Varna in Relation to Law and Politics (c 600 BC-AD 500)', inAspects of Political Ideas and Institutions in Ancient India, (1991), Motilal Banarsi Dass.
4. Kangle, R. (1997) Arthashastra of Kautilya - Part-III: A Study, Delhi: Motilal Banarsidass.
5. Habib, 'ZiyaBarni's Vision of the State', in The Medieval History Journal, (1998)
6. The Ain-i Akbari (translated by H. Blochmann), G. H. Rouse.

SEMESTER-VII

(MJC 13: MODERN POLITICAL PHILOSOPHY)

Major Course -MJC 13 **Theory – 50 Lectures**

Couse Credits – 05

Full Marks: 100

Course Objectives:

The course will enable teachers to introduce students to the key debates and ideas in Western political philosophy to help them analyze philosophical arguments in proper perspective. It will enable them to understand the basic ideas propounded by key political thinkers of Western Political Philosophy. Further it will encourage students to have critical thinking of the prevailing modern order that informs Marxism and its related ideas and debates.

Course Outcomes:

Upon completion of the Course, the students will be able to evaluate the strength and weakness of the arguments deployed by the above thinkers. It will also enable them to formulate their own interpretation of the thinkers based on thematic understanding.

Course Content:

MJC 13: MODERN POLITICAL PHILOSOPHY (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Thomas Hobbes: Human Nature, State of Nature, Social Contract, Leviathan	08
2	John Locke: Human Nature, Law of Nature, Natural Rights, Civil Society, Theory of Property, State.	10
3	Jean Jacques Rousseau: Social Contract, General Will, State, Nature of Sovereignty.	10
4	Jeremy Bentham: Positive Laws, Utilitarianism John Stuart Mill: Liberty, Democracy and Representation	12
5	Karl Marx: Historical Materialism, Dialectical Materialism, Class Struggle, Alienation, Communism, Revolution.	10
	Total	**50**

Recommended Readings:

1. Nelson, Brian R., Western Political Thoughts: From Socrates to the Age of Ideology, (2015), Pearson India, Delhi.
2. Hamppsher-Monk, I., A History of Modern Political Thought: Major Political Thinkers from Hobbes to Marx, (1992), Oxford, Blackwell Publishers.
3. Sabine, George H & Thorson, T.L., A History of Political Theory, (1973) Oxford & I.B.H. Publishing, New Delhi.
4. Mukherjee, S. &Ramaswamy, Sushila, A History of Political Thought: Plato to Marx, (2009), PHI, Delhi.
5. Jha, Shefali, Western Political Thought from the Ancient Greeks to Modern Times, (2018), Pearson India, Delhi.
6. Colletti, Lucio, From Rousseau to Lenin: Studies in Ideology and Society, (1976), Verso.
7. गाबा, ओ. पी., पाश्चात्य राजनीतिक चिंतन की रूपरेखा, (2018),मयूर प्रकाशन,
8. Suda, J.P., Modern Political Thought, (2011), K. Nath& Co., Meerut

Additional Readings:

1. Mukhopadhyay, A.K., Western Political Thought: From Plato to Marx, (1988), K.P. Bagchi & Co., Calcutta.
2. Hudelson, Richard, Modern Political Philosophy, (1999), Routledge.
3. Kumar, Ravi, Contemporary Readings in Marxism: A Critical Introduction, (2016), Aakar Books, New Delhi.
4. Kymlicka, Will, Contemporary Political Philosophy: An Introduction, (2014), OUP,
5. Wayper, C.L., Political Thought, (1965), Hutchinson, London.
6. Shukla, Haridwar, Modern Political Philosophy, (2022), Mahaveer Publications.

Semester – VII

(MJC 15: INDIAN POLITICAL THOUGHT – II)

MJC 15 **Theory – 60 Lectures**
Couse Credits – 06
Full Marks: 100

Course Objectives:
The objective of this course is to study important themes through individual thinkers. The course has been designed to give students a glimpse about the richness and diversity within Indian political thought.

Course Outcomes:
It is expected that at the end of the course the students will be able to think about issues and debates in contemporary India.

Course Content:

MJC 15 : INDIAN POLITICAL THOUGHT – II (Credits: 6)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to Modern Indian Political Thought	06
2	(A) Political Philosophy of Sri Aurobindo (B) Vivekananda: Cultural Nationalism, Ideal Society (C) Pandita Ramabai: Gender	15
3	(A) Ambedkar: Social Justice and Nation-Building (B) Lohia: Four Piller State, Idea of Sapta Kranti	12
4	(A) Gandhi: Truth, Non-violence, Swadeshi, Swaraj & Relevance in Modern age (B) Deen Dayal Upadhyay: Integral Humanism, Antyodaya (C) Nehru: Secularism & Socialism	15
5	(A) M.N. Roy: Radical Humanism (B) Veer Savarkar: Hindutva, Swaraj and Swadharma (C) Jai Prakash Narayan: Political and Social Ideas, Idea of 'Sampoorna Kranti'	12
	Total	60

Recommended Readings:

1. Singh, M.P. & Roy, Himanshu (2020), *Indian Political Thought: Themes and Thinkers,* Pearson.
2. Gauba, O.P. (2018), *Indian Political Thought,* Mayur Paperbacks, New Delhi.
3. Chakrabarty, V. & Pandey, Rajan Kumar (2009), *Modern Indian Political Thought: Text and Context,* Sage.
4. ठाकुर, एम. एन. (2022), *ज्ञान की राजनीति: समाज अध्ययन और भारतीय चिंतन,* सेतु प्रकाशन।
5. Mehta, V.R. (1996), *Indian Political Thought, Manohar,* New Delhi.
6. मिश्र, श्याम कार्तिक (संपा.)(2019), *एकात्म मानववाद: समकालीन भारत में पुनरावलोकन,* कुनाल बुक्स, नई दिल्ली।
7. सम्पत, विक्रम **(2021)**, *सावरकर एक भूले बिसरे अतीत की गूंज,* हिन्द पॉकेट बुक्स, दिल्ली।
8. Bajpayee, Ananya (2014), *Righteous Republic: The Political Foundation of Modern India,* Harvard Publication.
9. Mehta V. and Pantham T. (ed.) (2006), A Thematic Introduction to Political Ideas in Modern India: Thematic Explorations, *History of Science, Philosophy and Culture in Indian civilization,* Vol. 10, Part: 7, Sage Publications.
10. M. Kosambi (ed.) (2000), *Pandita Ramabai Through her Own Words: Selected Works,* Oxford University Press.
11. Mittal, S. S. (1979), *The Social and Political Ideas of Swami Vivekanand,* Metropolitan.

Additional Readings:

1. Jha, M.N. (1975) *Political Thought in Modern India,* Meenakshi Prakashan, Meerut.
2. तिवारी, रितेश्वर नाथ (2023), *जयप्रकाश नारायण: जनक्रांति के लोकनायक,* राजमंगल प्रकाशन, अलीगढ़।

3. सिंह, प्रियंका(2023), *सविनय अवज्ञा सिद्धांत एवं आंदोलन: महात्मा गाँधी एवं मार्टिन लूथर किंग, जूनियर,* हिन्दी बुक सेंटर , नई दिल्ली।

4. D. Dalton (1982), *Indian Idea of Freedom: Political Thought of Swami Vivekananda, Aurobindo Ghose, Mahatma Gandhi and Rabindranath Tagore,* The Academic Press

5. Dr. Ramendra (eds.) (1986), *Jayaprakash Vichar Sankalan,* Rajendra Prakashan.

6. Pantham, T. 'The Socio-Religious Thought of Rammohan Roy', in Th. Panthom and K. Deutsch, (eds.) *Political Thought in Modern India,* (1986), Sage Publications

Web Resources:

1. https://egyankosh.ac.in/handle/123456789/89373



SEMESTER-VIII
(MJC 16 : POLITICAL SOCIOLOGY)

Major Course -MJC 16 **Theory – 40 Lectures**

Couse Credits – 04

Full Marks: 100

Course Objectives:

The course will enable Students to evolve interdisciplinary approach in dealing with Political process and human behaviour. Students will learn the nuances of social-political intersection in a given society.

Course Outcomes:

Students will evolve empirical approach in the habit of indoctrination. Students will inculcate the skill of scientific socialization and Political participation. Students will be able to create an awareness among students towards the leadership skills and accountability.

Course Content:

MJC 16 : POLITICAL SOCIOLOGY (Credits: 4)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Political Sociology: Meaning, Nature and Scope. Difference between Political Sociology and Sociology of Politics.	06
2	Political Socialization: Meaning, Nature, Types and Agencies Political Culture: Meaning and Classification Political Participation: Meaning, Nature, Forms and Variables, Political Apathy	10
3	Political Development and Underdevelopment: Meaning, Characteristics and Lucian Pye's views Political Modernization: Meaning, Features and Agencies	08
4	Political Recruitment: Meaning, Nature and Kinds Political Leadership: Characteristics, Accountability and Efficacy Political Elite: Meaning and Theories Political Communication	10
5	Voting Behaviour in India: Nature and Determinants Relationship between Politics and Society in India	06
	Total	40

Recommended Readings:

1. शर्मा शशि, राजनितिक समाजशास्त्र की रूपरेखा, (2010) नई दिल्ली, पीएचआई लर्निंग
2. Roy Shefali, Society and Politics: Understanding Political Sociology, (2021) New Delhi, PHI Learning
3. Sharma L.N. and Ali Ashraf, Political Sociology: A new grammar of Politics, (1983) Universities press
4., Basu Pradip, Political Sociology (2020), Setu Prakashan
5. Chilcote, R. H. Theories of Comparative Politics. Westview Press.
6. Sushila Ramaswamy and Subrato Mukherejj. Theoretical Foundation of Caomparative Politics. Orient Blackswan.

Additional Readings:

1. Banerjee Sunanda, Introduction to Political Sociology, Janaki Prakashan Patna
2.. Ghai K.K, Political Sociology, (2015), Generic Publisher
3. Falks Keith, Political Sociology: Acritical Introduction, (1998), Edinburg University Press
4. Outhaite, William and Stephen Turner, Handbook of Political Sociology, (2020), Sage Publication.

Syllabus for

MINOR COURSES (MIC) in

POLITICAL SCIENCE

SEMESTER-III

(MIC 3 : POLITICAL THEORY : CONCEPTS AND DEBATES)

Major Course -MIC 3 **Theory – 30 Lectures**

Couse Credits – 03

Full Marks: 100

Course Objectives:

The course will enable the student to understand and engage with the central concepts, debates and theories in the field of politics; and to identify and analyze the normative aspects of Political Philosophy

Course Outcomes:

On completion of the course the student will be able to:
Comprehend and analyze the various concepts examined by classical and contemporary Political Thinkers. Understand the basics of Political philosophy. Evaluate the core concepts of Political values and their importance in Political and Social life.

Course Content:

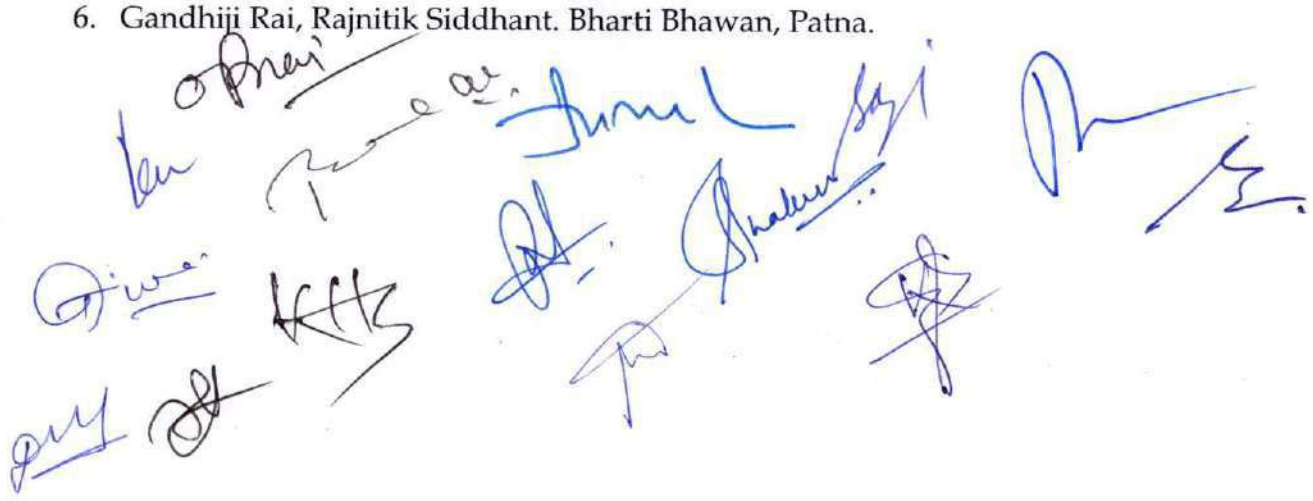
MIC 3 : POLITICAL THEORY : CONCEPTS AND DEBATES (Credits: 3)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**(A):** Concept of Liberty: Positive & Negative	**06**
	(B): Concept of Rights: Natural Rights, Moral and Legal Rights; Human Rights	**06**
2	Concept of Equality: Types of Equality, Equality of Opportunity; Political Equality	**06**
3	Concept of Justice; Procedural justice; Distributive Justice	**06**
4	Political obligation and Civil Disobedience	**06**
	Total	**30**

Recommended Readings

1. Johri, J C Aadhunik Rajniti Vigyan Ke Siddhant, (1996), Sterling Publisher.
2. Acharya, Ashok. 'Affirmative Action', in Bhargava, Rajeev and Acharya Ashok. (eds.) *Political Theory: An Introduction.* (2008) Pearson Longman,.
3. Dadhich, Naresh, Samsamyik Rajnitik Sidhant: EkParichay. (2015)
4. Nanarao C V, 'Introduction to Modern Political Analysis', (1976) Meenakshi Publications.
5. Johari, J C, 'Contemporary Political theory', (1979) Sterling Publication.

Additional Readings:

1. Arora, N D and S S Avasthi (1997), 'Rajnitik Sidhant',.
2. Kapur, A C Principles of Political Science', (1950), S Chand.
3. Bhagwan, Vishnu and Vidya Bhushan, 'Political Theory: Principles and Concepts', (2005) Kalyani Publishers.
4. Kumar Sanjiv, Rajniti Sidhant: Awadharnayen aur Vimarsh, (2021), Sage Publication.
5. Jain, Pukhraj Rajnitik Sidhant, (2020), Sahitya Bhawan Publication
6. Gandhiji Rai, Rajnitik Siddhant. Bharti Bhawan, Patna.



Semester - IV

(MIC 4: POLITICAL PROCESS IN INDIA)

Minor Course -MIC 4 **Theory – 30 Lectures**

Couse Credits – 03

Full Marks: 100

Course Objectives:

Politics cannot flourish in a vacuum. It requires a social foundation. This is the reason why Political structures function differently in various Political systems. Idealism in politics is often contested with realist approach. This paper will enable students to develop a pragmatic approach in understanding actual working of the Indian state amidst power equations and dynamics.

Course outcomes:

This course intends to achieve following outcomes: Developing analytical approach towards Political relations, actions and processes; Enhancing interdisciplinary approach in comprehending Political behaviour; Assessing the role of non-state actors in determining active participation; and, Examining the role of party system and interest groups in democratization of polity.

Course Content:

MIC 4: POLITICAL PROCESS IN INDIA (Credits: 3)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Political Parties and Party System in India: Nature & Trends	7
2	Determinants of Voting Behaviour: Caste, Class, Gender, Religion, Language and Factions; Election Commission of India	7
3	Regionalism and Identity Politics in India	6
4	Affirmative action through constitutional provisions under Indian Constitution	5
5	Threats to Indian Democracy: Corruption and Criminalization	5
	Total	**30**

Recommended Readings:

1. Mehta, Pratap Bhanu and Niraja Gopal Jayal. 2011. *The Oxford Companion to Politics in India*. Oxford University Press.
2. Basu, D.D. 1994. *An Introduction to the Constitution of India*. Prentice Hall.
3. Ghai, K.K. 2012. *Indian Government and Politics*. Kalyani Publishers.
4. Pylee, M.V. 1960. *Constitutional Government in India*. Asian Publishing House.
5. Kashyap, Subhash. 2021. *Our Constitution: An Introduction to the India's Constitution and Constitutional Law*. National Book Trust: New Delhi.
6. Kaushik, Sushila. 1984. *Bhartiya Sashan aur Rajniti*. Karyanwayan Nideshalaya Delhi University.
7. Roy, Gandhiji. 2023. *Bharatiya Samvidhan ke Mool Siddhant*. Bharati Bhawan Publication: Patna.
8. Kothari, Rajni. 1970. *Politics in India*. Boston, Little, Brown.
9. Brass, Paul R. 1994. *The Politics of India since Independence*. Cambridge University Press.

Additional Readings:

1. Narang, A. S. 1996. *Indian Government and Politics*. Geetanjali Publishing House.
2. Chakrabarty, Bidyut and Rajendra Pandey. 2008. *Indian Government and Politics*. Sage.
3. Sheth, M. P. Krishna. 1969. *Fundament Rights and Socio-Economic Justice in the Indian Constitution*. Chaitanya Publishing House.
4. Kaushik, S. (ed.). 1990. *Indian Government and Politics*. Directorate of Hindi Implementation, Delhi University.
5. Raman, Sunder. 1988. *Indian Government and Politics*. Allied Publishers.
6. Jha, Binod Kumar. 2018. *Why Assam Rebelled? An Enquiry into the Political Economy of Regionalism in India*. Alankar: Delhi.
7. Jain, Pukhraj. 2018. *Bharatiya Shasan evam Rajniti*. Sahitya Bhawan Publications.

SEMESTER-V

(MIC 5: INTRODUCTION TO COMPARATIVE GOVERNMENT AND POLITICS)

Major Course -MIC 5 **Theory – 30 Lectures**

Couse Credits – 03

Full Marks: 100

Course Objectives:
Comparative Politics is a foundational course in which the students will understand the concept of comparative government and politics.

Course outcomes:
On completion of the course the students will understand:_Basic concept of Comparative Government and Politics. The functioning of the different types of government in their respective Political system.

Course Content:

MIC 5: INTRODUCTION TO COMPARATIVE GOVERNMENT AND POLITICS) (Credits: 5)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Comparative Politics: Meaning, Nature and Scope	06
2	Approaches to the study of Comparative Politics: Traditional and Modern	06
3	Constitutionalism: Elements and Features	06
4	**Themes for comparative analysis** A comparative study of Development of Constitution in the following Countries:	
	a. Britain	04
	b. United States of America	04
	c. Switzerland	04
	Total	30

Recommended Readings:

1. Mohanty, M. 1975. "Comparative Political Theory and Third World Sensitivity". *Teaching Politics*. Vol. 1 and 2.
2. Suresh, R. 2010. *Economy and Society: Evolution of Capitalism*. Sage Publication.
3. Ghai, K. K. 2019. *Major Government*. Kalyani Publication.
4. Gena, C. B. 2023. *Comparative Politics and Political Institutions*. Vikash Publishing House.
5. Singhal, S. C. 2020. *Tulnatmak Rajniti*. Laxmi Narain Agarwal Publication.

Additional Readings:

1. Roy, A. 2001. "Comparative Method and Strategies of Comparison". *Punjab Journal of Politics*, Vol. xxv (2).
2. Wood, E. M. 2002. "The Agrarian origin of Capitalism". In *Origin of Capitalism: A Longer View*. Verso.
3. Meek, R. 1957. The Definition of Socialism: A Comment. *The Economic Journal*, 67 (265).
4. Duara, P. 2004. "Introduction: The Decolonization of Asia and Africa in the Twentieth Century", in P. Duara, (ed), *Decolonization: Perspective from Now and Then*. Routledge.

Semester – V

(MIC 6: PERSPECTIVES ON PUBLIC ADMINISTRARION)

Major Course -MIC 6 **Theory – 30 Lectures**
Couse Credits – 03
Full Marks: 100

Course Objectives:

After completion of the course, the students will be able to:

- Identify the meaning, nature and scope of Public Administration and distinguish it from Private Administration.
- Appraise the evolution of Public administration as an academic discipline.
- Develop an understanding of the major concepts & theories of Public Administration.
- The course will also attempt to provide and examine a comprehensive understanding on Contemporary Administrative Developments.

Course Outcomes

After completion of the course, the students will be able to understand and analyze the core concepts of Public Administration and its recent trends; to be able to compare the difference of viewpoint in different theories & concepts of Public Administration; and, to Identify, Facilitate and Examine contemporary theories of Public Administration.

Course Content:

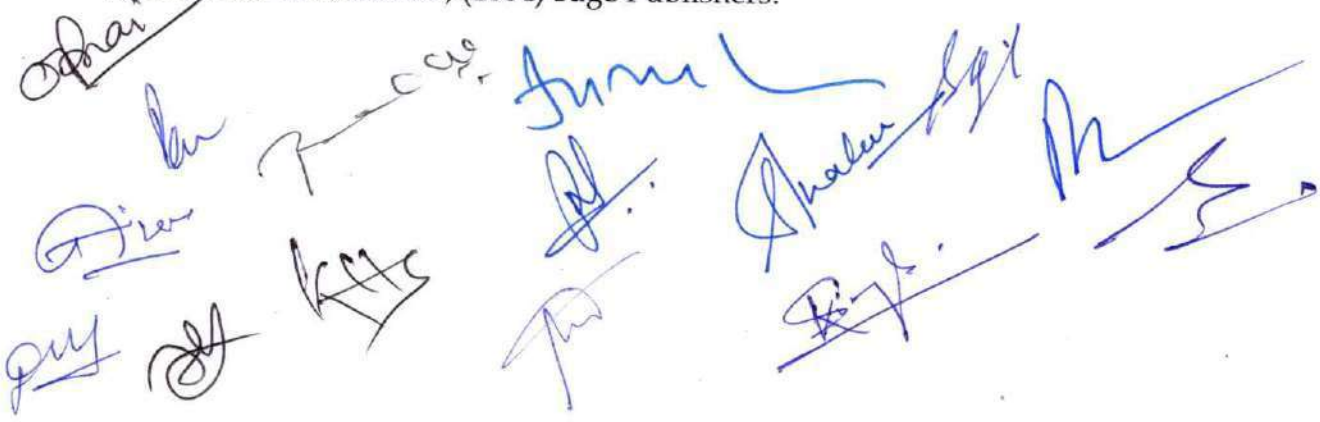
MIC 6 : PERSPECTIVES ON PUBLIC ADMINISTRARION (Credits: 3)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Public Administration: Meaning, Nature and Scope; Difference between Private and Public Administration; New Public Administration, New Public Management	10
3	Theories of Administration: Classical Theory, (Fayol, Urwick and Gulick, Elton Mayo) Scientific Management Theory, (F.W.Taylor) Ecological Approach (Fred W. Riggs)	10
4	Financial Administration: Meaning and Principles of Sound Budget, CAG	05
5	Integrity in Administration, Redressal of Citizen's Grievances, Ombudsman and Lokayukta	05
	Total	30

Recommended Readings:

1. Bhattacharya, M. *Restructuring Public Administration: A New Look,(2012)* Jawahar Publishers.
2. Bhattacharya, M. *New Horizons of Public Administration,* (2011),Jawahar Publishers.
3. Basu,Rumki, Public Administration: Concepts and Theories, (2014), Sterling Publisher.
4. Singh, Hoshiar, Lok Prashasan: Sidhhant aur Vhyavhar, (2011), Pearson India.
5. Sharma & Sadana, Public Administration in Theory and Practice, (2018) Kitab Mahal.
6. Maheshwari, S. Administrative Thinkers, (2009), Macmillan.

Additional Readings:

1. Henry, Nicholas *Public Administration and Public Affairs,* (1999), Prentice Hall,
2. Wilson, W. 'The Study of Administration', in B. Chakrabarty and M. Bhattacharya (eds), *Administrative Change and Innovation: A Reader,* (2004) Oxford University Press
3. Bhattacharya, M. *Restructuring Public Administration: A New Look,* (2012) Jawahar Publishers.
4. Dye, T. *Understanding Public Policy,* 5th Edition.*(1984),*Prentice Hall,
5. *The Oxford Handbook of Public Policy,* 2006 OUP.
6. Munshi, Surendra and Biju Paul Abraham [Eds.] *Good Governance, Democratic Societies and Globalisation,* (2004) Sage Publishers.



Semester – VI

(MIC 7: PERSPECTIVES ON INTERNATIONAL RELATIONS AND WORLD HISTORY)

Minor Course -MIC 7 **Theory – 30 Lectures**

Course Credits – 03

Full Marks: 100

Course Objectives:

This paper seeks to equip students with the basic intellectual tools for understanding International Relations. It introduces students to some of the most important theoretical approaches for studying International Relations. The course begins by historically contextualizing the evolution of the international state system before discussing the agency- structure problem through the levels of analysis approach. After having set the parameters of the debate, students are introduced to different theories and events in International Relations.

Course Outcomes:

This course provides a fairly comprehensive overview of the major theoretical constructs of International Relations, Political Developments and events starting from the twentieth century.

Students are expected to learn about the key milestones in world history and equip themselves with the tools to understand and analyze the same from different perspectives. A key objective of the course is to make students aware of the implicit Euro-centrism of International Relations by highlighting certain specific perspectives from the Global South.

Course Content:

MIC 7: PERSPECTIVES ON INTERNATIONAL RELATIONS AND WORLD HISTORY(Credits: 3)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Studying International Relations:** (D) International Relations: Meaning, Nature & Scope (E) History of IR: Emergence of the International State System	06
2	**Theoretical Perspectives-1** (A) Idealism (B) Classical Realism & Neo- Realism (C) Liberalism & Neo liberalism	10

3	**Theoretical Perspectives-2** (D) Marxist Approaches (E) Feminist Perspectives	04
4	**An Overview of Twentieth Century IR History-1** (E) World War II: Causes and Consequences (F) Cold War: Meaning, Origin and its Different Phases	05
5	**An Overview of Twentieth century IR History-2** (E) Collapse of the USSR and the End of the Cold War (F) Post-Cold War Developments- (i) US Unilateralism (ii) Rise of China: Challenge to US Hegemony	05
	Total	30

Recommended Readings:

1. Goldstein, S. Joshua and J. Pevehouse. 2007. *International Relations*. Pearson.
2. Kumar, Mahendra and Nandlal. 2021. *Antarrashtriya Rajniti ke Saiddhantik Paksh*. Shiva Lal Agarwal & Company.
3. Pant, Pushpesh. 2019. *Antarrashtriya Rajniti*. Meenakshi Prakashan.
4. Art, Robert J. and R. Jervis. 2016. *International Politics: Enduring Concepts and Contemporary Issues*. Pearson Education.
5. Smith, M. and R. Little (eds). 2000. "Introduction". In *Perspectives on World Politics*. Routledge.
6. Jackson, Robert H. and Sorenson, G. 2007. *Introduction to International Relations: Theories and Approaches*. Oxford University Press.
7. Basu, Rumki. 2015. *Antarrashtriya Rajneeti: Avdharnaye, Siddhant tatha Mudde*. Sage Bhasha Publication, New Delhi.
8. Kumar, Ajay. 2011. *Antarrashtriya Sambandho ke Siddhant: Ek Parichay*. Pearson Education, Delhi.
9. Biswal, Tapan. 2016. *Antarrashtriya Sambandh*. The Orient Blackswan.
10. Heywood, Andrew. 2022. *Key Concepts in Politics and International Relations*. Manohar Publishers.

Additional Readings:

1. Nicholson, M. 2022. *International Relations: A Concise Introduction*. Palgrave.
2. Baylis, J., S. Smith and P. Owens. 2008. *The Globalization of World Politics: An Introduction to International Relations*. Oxford University Press.
3. Carr, E. 1981. *The Twenty Years Crisis, 1919-1939: An Introduction to the Study of International Relations*. Macmillan.
4. Halliday, F. 1994. Rethinking International Relations. Macmillan.
5. Acharya, A. and B. Buzan. 2007. "Why Is There No Non- Western IR Theory: Reflections from Asia". *International Relations of The Asia- Pacific*. Vol 7(3)

SEMESTER-VI

(MIC 8: POLITICAL PROCESSES AND INSTITUTIONS IN COMPARATIVE PERSPECTIVE)

Major Course -MIC 8 **Theory – 30 Lectures**

Couse Credits – 03

Full Marks: 100

Course Objectives:

The students will be able to understand the application of comparative methods to the study of politics. It will focus on the study of Political Process and Institutions.

Course Outcomes:

On completion of the course the students will:
Understand the main concept of Comparative Politics and Process. Comprehend the approaches of Comparative Politics and Process. Assess the working of different Political system and their features.

Course Content:

MIC 8: POLITICAL PROCESSES AND INSTITUTIONS IN COMPARATIVE PERSPECTIVE (Credits: 3)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Approaches to Studying Comparative Politics and Political Process**	06
2	**Electoral System:** Meaning, Types and Working with special reference to India and USA	10
3	**Nation-state:** Nation and State debates.	04
4	**Democratization:** Process of Democratization in post-colonial countries	06
5	**Federalism:** Concept of Federation and Confederation	04
	Total	30

Recommended Readings:

1. Biswal, Tapan, Comparative Politics, (2013), Macmillan.
2. Heywood, A. Representation Electoral and Voting in Politics, (2002), Palgrave.
3. Johari, J.C, Contemporary Political Theory, Sterling Publisher
4. Kapoor, A.C, Principles of Political Science, S.Chand Publication.
5. Basu, D.D, Introduction to the Constitution of India, Lexis Nexis.
6. Jain, P. Tulnatmak Shasan evam Rajniti, Sahitya Bhawan Publication.
7. Kaushik, Sushila. Bharatiya Sashan evam Rajniti. Delhi University Press.

Additional Readings:

1. Hall, P. Taylor and C. Rosemary, Political Science and the Three New Institutionalism, (1996), *Political Studies.* XLIV, .
2. R. Moser, and S. Ethan, 'Mixed Electoral Systems and Electoral System Effects: Controlled Comparison and Cross-national Analysis, (2004), in *Electoral Studies.*
3. B. Criddle, Parties and Party System, , in R. Axtmann, (ed.) *Understanding Democratic Politics: An Introduction,* (2003), Sage Publications
4. A. Heywood, *Politics,* (2002), Palgrave
5. B. Smith, 'Democratization in the Third World', in *Understanding Third World Politics: Theories of Political Change and Development,* (2003), Palgrave Macmillan,

Semester – VII

(MIC 9: PUBLIC POLICY AND ADMINISTRATION IN INDIA)

Major Course -MIC 9 **Theory – 40 Lectures**

Couse Credits – 04

Full Marks: 100

Course Objectives:

After completion of the course the students will be able to develop an understanding of evolution of the Indian Administrative System; to understand different concepts and issues related to Public Policy and Administration; and, examine a comprehensive understanding on contemporary Administrative Developments.

Course Outcomes:

After completion of the course, the students will be able to understand and analyse the core concepts of Public Policies and its relation with Administration in India; to appraise the relation between Public Policy and Administration in India and its impact on citizen's delivery mechanism; and, to identify, facilitate and examine contemporary administrative developments in India.

Course Content:

MIC 9: PUBLIC POLICY AND ADMINISTRATION IN INDIA (Credits: 4)		
Unit	**Topics to be covered**	**No. of Lectures**
1	Public Policy: Meaning, Characteristics and Models; Public Policy Process in India	08
2	Decentralization: Meaning, Significance, Approches; Local Self Governance: Rural and Urban.	10
3	Budget: Concept and Significance; Budgetary Process in India.	06
4	Citizen Centric Administration; Public Service Delivery; Redressal of Public Grievances; RTI; Lokpal; Citizens' Charter and E – Governance.	08
5	Social Welfare Administration and Policies: (f) Right to Education; **(g)** Health: Ayushman Bharat Yojna; **(h)** Food: Right to Food security;	08

	(i) Employment: MNREGA (j) PM-Kisan Samman Nidhi	
	Total	**40**

Recommended Readings:

1. Chakrabarty, Bidyut. *Reinventing Public Administration: The Indian Experience*, (2007), Orient Longman.
2. Awasthi & Awasthi, Bhartiya Prashasan, (2017), Laxmi Narain Agarwal
3. Bava, Noorjahan. Development Policies and Administration in India, (2001), Uppal Publisher, Delhi.
4. Singh Satyajit and K. Sharma Pradeep [eds.] Decentralization: Institutions and Politics In Rural India, OUP,2007
5. Jayal, N.G. Democracy and The State: Welfare, Secular and Development in Contemporary India, (1999), Oxford University Press,
6. Fadia, B.L. & Fadia, Kuldeep(2017), Bharat me Lok Prashasan, Sahitya Bhavan, Agra.

Additional Readings:

1. Dye, T. *Understanding Public Policy*, 5th Edition, (1984), Prentice Hall
2. Denhardt R.B. and Denhardt, J.V. *Public Administration*, (2009),Brooks/Cole
3. Dye, T. *Understanding Public Policy*, (2002), Pearson
4. Drèze Jean and Sen, Amartya *India, Economic Development and Social Opportunity*, (1995), Oxford University Press,
5. Chakravorty Bidyut and Chandra, Prakash ,Bhartiye Prashasan: Vikash aur Padhatti, (2017), Sage Publication.

Web Resources:

1. **https://www.india.gov.in/e-governance-portal**

SEMESTER-VIII
(MIC 10: GLOBAL POLITICS)

Major Course -MIC 10 **Theory – 40 Lectures**
Couse Credits – 04
Full Marks: 100

Course Objectives:

The Course will enable students to understand and engage with the central facts and theories in the field of International Studies. The students will identify and analyze the different issues of global politics and the global challenges facing the International System.

Course Outcomes:

The students will have conceptual clarity about meaning, nature and significance of Globalization. The students will learn about the contemporary debates on the discourse of Globalization. The course will make them understand about the rise of financial networks and their impact on State and Sovereignty. The paper will enhance students understanding of contemporary global issues like proliferation of nuclear weapons, international terrorism and human security. The papers will develop analytical skills of the students to reflect on the phenomenon of global governance.

Course Content:

MIC 10: GLOBAL POLITICS (Credits: 4)		
Unit	**Topics to be covered**	**No. of Lectures**
1	India's Evolving Global Relations and Geopolitical Challenges India's Relation with USA, Russia, and China India and its Neighbors: Pakistan, Sri Lanka, Nepal and Bangladesh	**12**
2	Contemporary Global Issues: Multilateral Organisation: SCO, G20 and QUAD (C)Proliferation of Nuclear Weapons : NPT, CTBT (D) International Terrorism : Cross Border Terrorism Non State Actors and State Terrorism, Post 9/11 Developments	**12**
3	Contemporary Global Issues: (D) International Migration and Refugee Question (E) Human Rights (F) Globalization: Concepts and perspectives and critique	**16**
	Total	**40**

Recommended Readings:

1. I. Taylor, Kirsten W. Mansbach, Richard Introduction to Global Politics, (2016), Routledge
2. Ghai, U.R., Antrrastriya Rajniti,(2017), New Academic Publishing Co.
3. Pant.P., 21st Shatabdi me Antrrastriya Sambandh, (2020), McGrow Hill
4. Hirst, P. Thompson G. and Bromley, S. Globalization in Question, (2009), Cambridge University Press.
5. J. Volger, 'Environmental Issues', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, (2011), Oxford University Press

Additional Readings:

1. Ritzer, G. *Globalization: A Basic Text,*(2010), Wiley-Blackwell
2. Heywood, A. *Global Politics,* (2011), Palgrave-McMillan
3. Held D. and McGrew A. (eds.), *Global Transformations Reader: Politics, Economics and Culture*, (2002),Cambridge: Polity Press
4. Laxter G. and Halperin S. (eds.), *Global Civil Society and Its Limits,* (2003), Palgrave
5. Smith M. and Little, R. (eds.), *Perspectives on World Politics,* (2000),Routledge
6. Shukla Haridwar, global Politics; (2021) Mahaveer Publication
7. Shukla Haridwar, Politics of Globalization, (2021) Mahaveer Publication

Members of Expert Committeeof Political Science

Prof. Arvind Adityaraj
Professor,
COCAS,
PPU, Patna

Prof. Kundan Kumar Singh,
Head,
Department of Political Science,
VKSU, Ara

Prof. Om Prakash Rai
Professor&Principal,
Maharaja College,
VKSU, Ara

Prof. Vibhu Kumar
Head, Department of Political Science,
JPU, Chhapra

Prof. Shabnam Thakur
Professor, A. N. College,
PPU, Patna

Prof. Rachna Suchinmayee
Professor,
COCAS,
PPU, Patna

Prof. Anil Kumar Singh, Professor of Political Science,
VKSU, Ara

Prof. Khalid Hussain Siddiqui,
Professor of Political Science, R. N. College, BRABU, Muzaffarpur

Dr. Binod Kumar Jha,
Associate Professor,
A.N. College,
PPU, Patna

Prof. Rakesh Ranjan
Professor of Political Science,
Patna University,
Patna

Dr Satyaditya Singh
Associate Professor,
Deptt. of Political Science,
J.M.S. College,
MGRU, Munger

Dr Mukesh Kumar Jha
Assistant Professor,
Deptt. of Political Science,
SMD College,
Punpun, Patliputra Univ., Patna

Dr. Divya Mishra
Assistant Professor of Political Science,
MU, Bodh Gaya

Mr.Gangesh Kumar Jha
Assistant Professor,
UDPS,
L.N.M.U.,
Darbhanga

Dr. Dewendra Pratap Tiwari
Assistant Professor of Political Science,
BRABU,
Muzaffarpur

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:-**Regarding submission of proposed course structure and uniform syllabus of Sociology for 3rd to 8th Semester of 4-Year undergraduate Course.**

Reference:- Letter No.-BSU (UGC) -02/2023- 1457/ GS(I) dated 14.09.2023 and P.U. Letter No. 011/PSVC.

Sir,

In Compliance with your letter no. BSU(UGC)- 02/2023-1457/ GS(I) dated-14.09.2023 followed by above mentioned letter no, we are submitting the proposed course structure and syllabus of Sociology for 3rd to 8th semester of the 4 year under graduate course system as per UGC regulations.

Enclosed:-as above.

Your faithfully

(Rana Sheel Kumar Singh)
19/09/23
Head P.G. Deptt. of Sociology
BMMV, Madhepura.

19/09/2023
HOD, Deptt of Sociology
B.K.S.U Arg.

Anjdha Prasad
19.09.2023.
H.O.D. PG. Deptt. of Sociology
P.P.U. Patna.

19.9.23
Dr. Bijay Kumar Singh.
Associate Professor
Dept of Sociology
M.M.A.M. P.U.
19.9.23

19/09/23
Dr Madan Kumar
Professor, Dept. of Sociology
J.D. Women's College, Patna
P.P.U.

Pramod Kumar Choudhary
(Associate Professor)
P.G. Deptt of Sociology
T.M.B.U, Bhagalpur.

Dr. Rafia Kazim
Asstt. Professor
P.G. Dept, LNMU, DBG.
19/9/23

Arya Priya
HOD (Assistant Professor)
PG Deptt of Sociology
BRABU, Muzaffarpur
19/9/23

Priti Kumari
19/09/2023
ASSISTANT PROFESSOR
DEPT. OF. SOCIOLOGY
MUNGER UNIVERSITY,
MUNGER

19/9/23
Retd. Professor,
T.M. Bhagalpur University
Bhagalpur

SEMESTER- III

MJC 3 - Introduction to Sociology- II

Course objectives

1. Gain Scientific Knowledge about society
2. To Know about the then Prevailing Socio-Economic and Political Conditions for the emergency of Sociology.
3. To acquaint the students about the basic concepts of Sociology.
4. To know about the emerging forms of social change.
5. To develop socio-cultural harmony within the society.
6. To enable the students to understand social phenomena in sociological perspective.

After the completion of the course, the student will be able to:

- Get familiar with the concept and elements of social structure.
- Analyze the sociological concept of function and dysfunction with types.
- Explain the processes and stages of social learning.
- Reflect the traditional and modern trends of social change.

MJC 3 - Introduction to Sociology- II (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Social Structure** a) Concept & Definitions b) Elements	10
2	**Function and Dysfunction** a) Concept & Definitions b) Types	10
3	**Socialization** a) Meaning and Definitions b) Stages c) Agencies	10
4	**Social Change and Theories** a) Concept and Characteristics b) Evolutionary c) Cyclical d) Conflict	20
5	**Tutorial**	10
	TOTAL	**60**

Reading List:

1. Jonathan Turner; **The Structure of Sociological Theory**; Rawat Publication, Jaipur
2. George Ritzer; **Sociological Theory**; McGraw Hill Education India, Noida
3. Hortan& Hunt; **Sociology**; McGraw Hill Education India, Noida
4. Robert Bierstedt; **Social Order**; McGraw Hill Book Company, New York
5. Robert Redfield, Harry & Shapiro; **Man, Culture & Society**; Oxford University Press, New York
6. Sachdeva &Vidyabhushan; **An Introduction to Sociology**:Kitab Mahal, New Delhi (Also available in Hindi)
7. P. Gisbert; **Fundamentals of Sociology;** Orient Blackswan Pvt. Ltd., New Delhi.
8. H.M. Johnson; **Sociology;** Allied Publishers Pvt. Ltd., New Delhi.
9. Haralambos&Holborn; **Sociology: Themes and Perspective;**Harper Collins Publisher India Ltd. Noida
10. J.P. Singh;समाज शास्त्रीय अवधारणाएँ एवं सिद्धांत; PHI Learning Private Limited, Delhi
11. Jyoti Sidana; समाजशास्त्र एक मूल्यांकनात्मक परिचय; Rawat Publications, Jaipur

SEMESTER- III

MJC 4 – Sociology of India – II

Course Objectives

1. To acquaint the student with the pluralistic structure of the Indian Society.
2. To finalize with the structure and function of the important social institutional of the Indian Society.
3. To explain the main characteristics of the communities found in the Indian society.
4. To analyze the concept of caste in its present connotations.

Course Outcomes

After the completion of the course, the student will be able to:

- Discuss the contribution of some legendary personalities of India in context of the Indian society.
- Explain the resistance movements in India and their impacts.
- Articulate the effect of modernization and globalization.
- Understand the important challenges and issues facing by the Indian society.

MJC 4 – Sociology of India – II

(Theory: 4 credits)

Unit	Topics to be covered	No. of Lectures
1	**Ideas of India** a) Gandhi, Lohia and Ambedkar – Views on Indian Society b) Contributions of G.S. Ghurye and M. N. Srinivas	10
2	**Resistance, Mobilization and Change** a) Reservation Policy and Empowerment of Dalits b) Trends of mobility and change in Indian Society – Modernization & Globalization	10
3	**Social Movements** a) Peasant Movement b) Ethnic Movement c) Women's Movement	10
4	**Issues and Challenges** a) Communalism – Concept, Characteristics and Causes b) Secularism – Concept and Characteristics; Nationalism	10
5	**Tutorial**	10
	TOTAL	**50**

Reading List:

1. David G. Mandelbaum; **Society in India: Continuity and Changes**; University of California Press, Berkeley and Los Angles, California.
2. K.M. Panikar; **Hindu Society at Cross Roads**; Asia Publishing House, Bombay
3. A.R. Desai; **Social Background of Indian Nationalism**; Popular Parkashan, Bombay(also available in Hindi)
4. M.N. Sriniwas; **Caste in Modern India and Other Essays;**Asia Publishing House, Bombay (also available in Hindi)
5. M.N. Sriniwas; **The Dominant Caste and Other Essays;** Oxford University Press, New Delhi
6. S.L. Doshi & P.C. Jain; **Indian Society**; National Publishing House, Jaipur
7. Nadeem Hasnain; **Indian Society and Culture**; McGraw Hill Education India, Noida
8. Ahuja Ram; भारतीय सामाजिकव्यवस्था;रावतपब्लिकेशन्स, जयपुर एवंनईदिल्ली।
9. K.L. Sharma; भारतीय समाज; एन0सी0ई0आर0टी0, नईदिल्ली।

SEMESTER- III

MIC 3 - Introduction to Sociology- II

Course objectives

1. Gain Scientific Knowledge about society
2. To Know about the then Prevailing Socio-Economic and Political Conditions for the emergency of Sociology.
3. To acquaint the students about the basic concepts of Sociology.
4. To know about the emerging forms of social change.
5. To develop socio-cultural harmony within the society.
6. To enable the students to understand social phenomena in sociological perspective.

After the completion of the course, the student will be able to:

- Get familiar with the concept and elements of social structure.
- Analyze the sociological concept of function and dysfunction with types.
- Explain the processes and stages of social learning.
- Reflect the traditional and modern trends of social change.

MJC 3 - Introduction to Sociology- II (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Social Structure** a) Concept & Definitions b) Elements	10
2	**Function and Dysfunction** a) Concept & Definitions b) Types	10
3	**Socialization** a) Meaning and Definitions b) Stages c) Agencies	10
4	**Tutorial**	10
	TOTAL	**40**

Reading List:

1. Jonathan Turner; **The Structure of Sociological Theory**; Rawat Publication, Jaipur
2. George Ritzer; **Sociological Theory**; McGraw Hill Education India, Noida
3. Hortan& Hunt; **Sociology**; McGraw Hill Education India, Noida
4. Robert Bierstedt; **Social Order**; McGraw Hill Book Company, New York
5. Robert Redfield, Harry & Shapiro; **Man, Culture & Society**; Oxford University Press, New York
6. Sachdeva &Vidyabhushan; **An Introduction to Sociology**:Kitab Mahal, New Delhi (Also available in Hindi)
7. P. Gisbert; **Fundamentals of Sociology;** Orient Blackswan Pvt. Ltd., New Delhi.
8. H.M. Johnson; **Sociology;** Allied Publishers Pvt. Ltd., New Delhi.
9. Haralambos&Holborn; **Sociology: Themes and Perspective;**Harper Collins Publisher India Ltd. Noida
10. J.P. Singh;समाज शास्त्रीय अवधारणाएँ एवं सिद्धांत; PHI Learning Private Limited, Delhi
11. Jyoti Sidana; समाजशास्त्र, एक मूल्यांकनात्मक परिचय; Rawat Publications, Jaipur

(Rana Sunil Kumar Singh) 19/09/2023
H.O.D. / P.G. Dept. of Sociology
B.N.M.U., Madhepura

Dr. Pramod Kumar Choudhary
Associate Professor
P.G. Deptt of Sociology
B.N.U. Bodh Gaya

Dr. Madhu Kumari
Professor, Dept. of Sociology
J.D. Women's College, Patna
P.P.U.

Anjana Prasad
19.09.23

Dr. Rafia Kagzi
Asstt. Prof. LNMU
Darbhanga
19/9/2023

Dr. Aditya Kumar Singh
Assistant Professor
Dept. of Sociology
M.M.C., P.U.
19.9.23

Dr. Aditya Kumar
Assistant Professor
Dept. of Sociology
MUNGER UNIVERSITY, MUNGER
19/9/2023

Dr. Aditya Priya
HOD, Assistant Professor
M.M.C., P.U.
19.9.23

SEMESTER- III

MDC 3 - Introduction to Sociology- II

Course objectivess

1. Gain Scientific Knowledge about society
2. To Know about the then Prevailing Socio-Economic and Political Conditions for the emergency of Sociology.
3. To acquaint the students about the basic concepts of Sociology.
4. To know about the emerging forms of social change.
5. To develop socio-cultural harmony within the society.
6. To enable the students to understand social phenomena in sociological perspective.

After the completion of the course, the student will be able to:

- Get familiar with the concept and elements of social structure.
- Analyze the sociological concept of function and dysfunction with types.
- Explain the processes and stages of social learning.
- Reflect the traditional and modern trends of social change.

MJC 3 - Introduction to Sociology- II (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Social Structure** a) Concept & Definitions b) Elements	10
2	**Function and Dysfunction** a) Concept & Definitions b) Types	10
3	**Socialization** a) Meaning and Definitions b) Stages c) Agencies	10
4	**Tutorial**	10
	TOTAL	**40**

Reading List:

1. Jonathan Turner; **The Structure of Sociological Theory**; Rawat Publication, Jaipur
2. George Ritzer; **Sociological Theory**; McGraw Hill Education India, Noida
3. Hortan& Hunt; **Sociology**; McGraw Hill Education India, Noida
4. Robert Bierstedt; **Social Order**; McGraw Hill Book Company, New York
5. Robert Redfield, Harry & Shapiro; **Man, Culture & Society**; Oxford University Press, New York
6. Sachdeva &Vidyabhushan; **An Introduction to Sociology**;Kitab Mahal, New Delhi (Also available in Hindi)
7. P. Gisbert; **Fundamentals of Sociology;** Orient Blackswan Pvt. Ltd., New Delhi.
8. H.M. Johnson; **Sociology;** Allied Publishers Pvt. Ltd., New Delhi.
9. Haralambos&Holborn; **Sociology: Themes and Perspective;**Harper Collins Publisher India Ltd. Noida
10. J.P. Singh;समाज शास्त्रीय अवधारणाएँ एवं सिद्धांत; PHI Learning Private Limited, Delhi
11. Jyoti Sidana; समाजशास्त्र एक मूल्यांकनात्मक परिचय; Rawat Publications, Jaipur

SEMESTER- IV

MJC 5 – Political Sociology

Course Objectives

1. Major theoretical prospective and debates in the study of Political Sociology.
2. Knowledge about Political Ideologies of Political Parties and Political Participation.
3. Understanding about the political Institutions and functioning.
4. Understand the nature of Political Systems.
5. Understanding of the relationship between Civil Society and the State.

Course Outcomes

After the completion of the course, the student will be able to:

- Acquaint with the subject outlook of political sociology.
- Identify the basic concept of political sociology.
- Develop critical vision to analyze some important theories of the elite.
- Understand the role of prominent democratic actors.

MJC 5 – Political Sociology (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Political Sociology- Contextualising Study of Politics** a) Emergence of Political Sociology b) Definition, Nature and Scope of Political Sociology c) Relationship with Sociology, Political Science, Economics and Psychology	12
2	**Basic Concepts** a) Influence – Definitions, nature, characteristics and sources b) Power – Definitions, characteristics, sources and types c) Authority – Definitions, types, functions and distinctions with power and influence	12
3	**Theories of Elite** a) Pareto b) C. Wright Mills c) Mosca	12
4	**Democratic Actors** a) Pressure Group – Definitions, types and role b) Political parties – Definitions, elements, functions and limitations c) Voting Behaviour in India	12
	Tutorial	12
	TOTAL	60

Reading List:

1. S.N. Eisintadt; **Political Sociology: A Reader;** Rawat Publication, Jaipur.
2. C.J. Fuller and V. Beni; **The Everyday State and Society in Modern India**: Social Science Press, New Delhi
3. C. Wright Mills; **The Power Elite**; Oxford University Press, New York
4. Max Weber; **Economy and Society**;University of California Press, Berkeley and Los Angeles, California
5. Timothy Mitchell;**Society, Economy and the State Effect: A Reader;** Cornell University Press, Ithaca
6. Shefali Roy; **Society and Politics in India**; PHI Learning Pvt. Ltd., New Delhi
7. Shashi Sharma;राजनीतिक समाजशास्त्र की रूपरेखा; PHI Learning Pvt. Ltd., New Delhi
8. Ishwar Singh Chouhan & Srinath Sharma; राजनीतिक समाजशास्त्र; SBPD Publishing House, Agra
9. Purkhraj Jain & B.L. Fadia;राजनीतिक समाजशास्त्र; Sahitya Bhawan, Agra

SEMESTER – IV

MJC 6- Rural & Urban Society

Course-objective

1. Understand various components of Rural Social structure such as Village and Community, Family, Caste, Rural power structure.
2. It also analyze the effect religion, custom and tradition on rural Social structure.
3. Understand about the Urban scenario nature, scope and importance of Urban society.
4. Analyzed the Urban-Ecology and its theory.
5. Understand relation between Rural-Urban continuum.

Course Outcomes

After the completion of the course, the student will be able to:

- Acquire fundamental knowledge about rural sociology.
- Get a holistic view of rural social institutions.
- Assess the main elements of the political structure and their changing aspects.
- Make a comparative analysis of the indigenous processes of change in rural society.

Rural & Urban Society (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** a) Meaning, definition and scope: Rural & Urban b) Rural and urban community: characteristics and continuum c) City concept & charactecits	12
2	**Rural & Urban Social Institutions** a) Family in Rural and Urban Societies function and changes b) Caste & Class system in Rural and Urban	12
3	**Social processes in Rural and Urban Communities** a) Urbanism, Urbanization b) Sanskritzation & Westernization c) Migration	12
4	**Social Problem in Urban & Rural and Urban Societies** a) Poverty, draught, migration b) Slum, Pollution c) Crime and Beggary	12
5	**Tutorial**	12
	TOTAL	**60**

Reading List:

1. A.R. Desai; **Rural Sociology in India;** Popular Prakashan Pvt. Ltd. Mumbai (also available in Hindi)
2. David G. Mandelbaum; **Society in India: Continuity and Changes;**University of California Press, Berkeley and Los Angeles, California
3. M.N. Srinivas; **The Dominant Caste and Other Essays**;Oxford University Press, New Delhi
4. S.L. Doshi and P.C. Jain;**Rural Sociology;** Rawat Publications, Jaipur (also available in Hindi
5. Rajendra Kumar Sharma;**Rural Sociology;** Atlantic Publisher and Distributor, New Delhi
6. O.P. Dahma; ग्रामीण समाज शास्त्र; मध्य प्रदेश हिन्दी ग्रंथ अकादमी, भोपाल
7. Ravindranath Mukherjee & Bharat Aggrawal; ग्रामीण समाज शास्त्र; SBPD Publishing, Agra
8. Gopal Krishna Aggrawal; ग्रामीण समाज शास्त्र; SBPD Publishing, Agra

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SEMESTER-IV

MJC 7 – Sociology of Gender

Course Objectives

1. Students will become finalize with different perspective and theories of Gendered power structures, practices and subjectveness.
2. Analytical understanding of relation between patriarchy power and violence.
3. Examine the Gender issues from Sociological point of view.
4. To introduce the concept and issues related to women's development and empowerment.
5. To enable the students to understand and analyze head of Gender sensitive's policies.

Course Outcomes

After the completion of the course, the student will be able to:

- Examine the gender issues from sociological point of view.
- Highlight the concept and theoretical perspective of feminism.
- Get acquainted with the various issues of gender discrimination in India.
- Articulate the various dimensions of resistance and protest movements.

MJC 7 – Sociology of Gender (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Gendering Sociology** a) Sociology of Gender: Meaning, definition and subject matter b) Sex and Gender: Bases of gender role division c) Patriarchy: Meaning, definition, origin and dimensions	12
2	**Theories of Feminism** a) Biological b) Functional c) Cultural	12
3	**Gender, Differences and Inequalities** a) Gender inequality – Meaning, definitions, extent, factors and eradicative measures b) Gender discrimination – Meaning, modes, agencies and offences against women	12
4	**Gender – Power and Resistance** a) Power and Subordination - Rights of Women, Laws to Protect the Rights of Women. b) Resistance and Movements	12
	Tutorial	12
	TOTAL	**60**

Reading List:

1 S. Jackson and S. Scott (eds.): **Gender, A Sociological Reader**:Routledge, London.

2 Kumar Radha:**From Chipto to Sati, The Contemporary Indian Women's Movement in Nivedita Menon (Gender and Politics in India)**; Oxford University Press, New Delhi.

3 Halberstam, Judith:**An Introduction to Female Masculinity**; Duke University Press, London (Also Delhi: Zubaan 2012) Re-print.

4 Walby, Sylvia;**Gender, Class and Stratification – Towards a new approach, A Sociological Reader**;Rout ledge, London

5 Kandiyoti, Deniz;**Bargaining with Patriarchy in Judith Lorber and Susan AFarrel (Eds.). Social Construction of Gender**; Sage Publication, New Delhi.

6 R.K. Rastogi;लिंग एवंसमाज; Sanjeev Prakashan, Jaipur

7 Savita Sharma;लिंग, विद्यालय एवंसमाज; Sri Vinod Pustak Mandir, Agra

8 Subhash Sharma; भारतीय महिलाओं की दशा; Aadhar Prakashan, Panchkula (Haryana)

9 Gopa Joshi;भारतमें स्त्री असमानता; Hindi MadhyamKaryanawayanNidheshalay, Delhi University, New Delhi

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SEMESTER-IV

MIC 4 – Sociology of India – II

Course Objectives

1. To acquaint the student with the pluralistic structure of the Indian Society.
2. To finalize with the structure and function of the important social institutional of the Indian Society.
3. To explain the main characteristics of the communities found in the Indian society.
4. To analyze the concept of caste in its present connotations.

Course Outcomes

After the completion of the course, the student will be able to:

- Discuss the contribution of some legendary personalities of India in context of the Indian society.
- Explain the resistance movements in India and their impacts.
- Articulate the effect of modernization and globalization.
- Understand the important challenges and issues facing by the Indian society.

MIC 4 – Sociology of India – II

(Theory: 3 credits)

Unit	Topics to be covered	No. of Lectures
1	**Ideas of India** a) Gandhi, Lohia and Ambedkar – Views on Indian Society b) Contributions of G.S. Ghurye and M. N. Srinivas	08
2	**Resistance, Mobilization and Change** a) Reservation Policy and Empowerment of Dalits b) Trends of mobility and change in Indian Society – Modernization & Globalization	08
3	**Social Movements** a) Peasant Movement b) Women's Movement	08
4	**Issues and Challenges** a) Communalism – Concept, Characteristics and Causes b) Secularism – Concept and Characteristics; Nationalism	08
5	**Tutorial**	08
	TOTAL	**40**

Reading List:

1. David G. Mandelbaum; **Society in India: Continuity and Changes**; University of California Press, Berkeley and Los Angles, California.
2. K.M. Panikar; **Hindu Society at Cross Roads**; Asia Publishing House, Bombay
3. A.R. Desai; **Social Background of Indian Nationalism**; Popular Parkashan, Bombay(also available in Hindi)
4. M.N. Sriniwas; **Caste in Modern India and Other Essays;**Asia Publishing House, Bombay (also available in Hindi)
5. M.N. Sriniwas; **The Dominant Caste and Other Essays;** Oxford University Press, New Delhi
6. S.L. Doshi & P.C. Jain; **Indian Society**; National Publishing House, Jaipur
7. Nadeem Hasnain; **Indian Society and Culture**; McGraw Hill Education India, Noida
8. Ahuja Ram; **भारतीय सामाजिकव्यवस्था**;रावतपब्लिकेशन्स, जयपुर एवंनईदिल्ली।
9. K.L. Sharma; **भारतीय समाज**; एन0सी0ई0आर0टी0, नईदिल्ली।

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SEMESTER-V

MJC-8 - Indian Social Problems

Course Objectives

a) To acquaint the student with primary social afflictions in India.
b) To Familiarize the student with impact and dimensions of Social problems
c) To make students aware of measures taken to deal with major social vices.

Course Outcomes

After the completion of the course, the student will be able to:

- Get acquainted with the multi-dimensional aspects of social deviation.
- Throw light on some prominent social problems in Indian society.
- Analyze some current steps taken for the eradication of certain social vices.
- Examine the role of Government & Civil Society in the field of reformation.

MJC 8-Indian Social Problems (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Crime** a) Concept, meaning and definition b) Factors and types c) Theories of crime	15
2	**Juvenile Delinquency** a) Concept of definition b) Causes and forms c) Reformative measures	10
3	**Alcoholism** a) Definition & characteristic b) Causes and consequences c) Prohibition: Idea and implementation	10
4	**Poverty & unemployment** a) Concept and definition b) Causes and consequences c) Measures to Reduce Poverty & unemployment	15
5	**Tutorial**	10
	TOTAL	**60**

Reading List:

1. G.R. Madan:**Indian Social Problems**: Allied Publisher Pvt. Ltd., New Delhi (also available in Hindi)
2. Ram Ahuja;**Social Problems in India**; Rawat Publications, Jaipur (also available in Hindi)
3. J. Shivananda;**Contemporary Social Problems**; Alfa Publications, New Delhi
4. Dr. Sanjeev Mahajan;सामाजिकसमस्याएँ;Arjun Publishing House, New Delhi
5. Dr. ManjulataJhillar;भारतीय सामाजिकसमस्याएँ; Arjun Publishing House, New Delhi
6. जी॰ के॰ अग्रवाल– अपराधशास्त्र
7. एम.एल. गुप्ता एण्ड शर्मा–अपराधशास्त्र
8. एस.डी. सिंह– अपराधशास्त्र

MJC-9 Social Change and Development in India

Course Objectives

a) To acquaint the student with various dimensions of social change
b) To familiarize the student with important bases of change.
c) To understand the impact of contemporary factors of social change in India.

Course Outcomes

After the completion of the course, the student will have to:

- Formulate the sociological concepts related to social change.
- Critically examine its theoretical perspectives.
- Assess the traditional and modern processes of social change.
- Evaluate the measures of planned social change in India.

MJC- 9 – Social Change and Development in India (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Basic Concepts** a) Meaning of Social Change, Social Development and Social Progress b) Factors of social change c) Evolution and Revolution	15
2	**Theories of Social Change** a) Evolutionary b) Cyclical c) Conflict Theory	10
3	**Process of Social Change in India** a) Modernization b) Globalization c) Sanskritization	10
4	**Planned Change in India** a) Five Year Plans: Objectives, Achievements and Limitations b) MANREGA: Objectives & Achievements c) Panchayati Raj in Bihar: Structure and Functions	15
5	**Tutorial**	10
	TOTAL	**60**

Reading List:

1. D. Harrison- The Sociology Modernization & development
2. Y- Singh- Modernization of Indian Tradition
3. M.N. Srinivas- Social Change in modern India
4. Economics of development & Planning- Jhingan
5. विकास का समाशास्त्र– गोपी कृष्ण प्रसाद
6. विकास का समाशास्त्र–श्याम चरण दबे
7. विकास का समाशास्त्र–के.के. मिश्रा

SEMESTER-V

MIC 5 – Political Sociology

Course Objectives

a) To acquaint the student with the fundamental relation between politics and society
b) To familiarize the students with different aspects of Political Sociology.
c) To understand the voting behavior in India.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the fundamental dimensions of Political Sociology
CO2: Acquaint with the basic concepts of political sociology.
CO3: Understand the role of prominent democratic actors

MIC 5 – Political Sociology (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Political Sociology- Contextualising Study of Politics** d) Definition, Nature and Scope of Political Sociology e) Relationship with Sociology, Political Science, Economics and Psychology	10
2	**Basic Concepts** d) Power – Definitions, characteristics, sources and types e) Authority – Definitions, types, functions and distinctions with power	10
3	**Democratic Actors** d) Pressure Group – Definitions, types and role e) Political parties – Definitions, elements, functions and limitations f) Voting Behaviour in India	10
4	**Tutorial**	05
	TOTAL	**35**

Reading List:

1. S.N. Eisintadt; **Political Sociology: A Reader;** Rawat Publication, Jaipur.
2. C.J. Fuller and V. Beni; **The Everyday State and Society in Modern India**; Social Science Press, New Delhi
3. C. Wright Mills; **The Power Elite**; Oxford University Press, New York
4. Max Weber; **Economy and Society**: University of California Press, Berkeley and Los Angeles, California
5. Timothy Mitchell;**Society, Economy and the State Effect: A Reader;** Cornell University Press, Ithaca
6. Shefali Roy; **Society and Politics in India**; PHI Learning Pvt. Ltd., New Delhi
7. Shashi Sharma;राजनीतिकसमाजशास्त्र की रूपरेखा; PHI Learning Pvt. Ltd., New Delhi
8. Ishwar Singh Chouhan & Srinath Sharma; राजनीतिकसमाजशास्त्र; SBPD Publishing House, Agra
9. Purkhraj Jain & B.L. Fadia,राजनीतिकसमाजशास्त्र; Sahitya Bhawan, Agra

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SEMESTER-V

MIC 6 – Sociology of Religion

Course Objectives

a) To acquaint the students with the basic dimensions of Sociology of Religion.
b) To familiarize the students with basic terminology in Sociology of Religion.
c) To understand the basic role of Religion in Indian Society.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Acquaint with the subject matter of sociology of religion.
CO2: Identify the elements of religion.
CO3: Analyze the contemporary issues related with religion in sociological perspectives.

MIC 6 – Sociology of Religion (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** a) Religion: Definition and characteristics b) Origin Theories of religion: Animism & Naturalism c) Sociology of Religion: Definition, Nature and Scope	10
2	**Elements of Religion** a) Ritual: Nature, Definition, Characteristics & Types b) Religious Groups: Sect, Denomination and Cult	10
3	**Religion and Society: Contemporary Issues** a) Religious Fundamentalism b) Secularism and Communalism: Meaning, Characteristics and Factors c) Religious Pluralism in India: Meaning importance and context in India	10
4	**Tutorial**	05
	TOTAL	**35**

Reading List:

1. Emile Durkheim; **The Elementary Forms of Religious Life**; The Free Press, New York
2. E.E. Evans-Pritchard; **The Nuer**; Oxford Clarendon Press, New York
3. Davie Grace; **The Sociology of Religion: A Critical Agenda**; Sage Publications, New Delhi
4. Ronald L. Johnstone: **Religion and Society in Interaction: The Sociology of Religion**; Prentice Hall Publication, New Delhi
5. Max Weber; **The Protestant Ethics and the Spirit of Capitalism**; The Free Press, New York
6. Rabindra Nath Mukherjee & Bharat Agrawal; धर्म का समाजशास्त्र; SBPD Publication, Agra

SEMESTER-VI

MJC 10 – Social Stratification

Course Objectives

a) To acquaint the student with basics of social stratification.
b) Familiarizes the students with the concept of caste and class.
c) To understand the dimensions of ethnicity and identity.

Course Outcomes

After the completion of the course, the student will be able to:

- Understand the concept of social stratification.
- Critically analyze the theoretical perspectives.
- Analyze the role of caste and class in the context of Indian society.
- Highlight the issues of ethnicity and identity in contemporary scenario.

MJC 10 – Social Stratification
(Theory: 4 credits)

Unit	Topics to be covered	No. of Lectures
1	**Introducing Stratification** a) Concepts of Social Stratification b) Bases of Stratification c) Social stratification and Social Mobility	10
2	**Theories of Stratification** a) Marx b) Weber c) Davis and Moore	10
3	**Caste and Class** a) Caste as a basis of Stratification b) Class as a basis of Stratification c) Difference between Caste and Class	10
4	Ethnicity, Identity and Inequality a) Stratification and Inequality b) Ethnicity: concept & ethnicity in India c) Identity : concept and basis of Stratification	10
5	Tutorial	10
	TOTAL	50

Reading List:

1. Peter Worsley;**Introducing Sociology**; Harmondsworth, Penguin Books.
2. C. N. Shanker Rao;**Principles of Sociology**;S. Chand and Company Ltd., New Delhi.
3. David Maclellan;**The Thoughts of Karl Marx**;Papermac, London,.
4. T.B. Bottomore;**Classes in Modern Society**;*Pantheon* Books,New York.
5. Wendy Bottero;**Stratification**; Routledge, London
6. Max Weber; Hans Heinrich Gerth and Wright Mills;**From Max Weber**:Oxford University Press, New York
7. K.L. Sharma;सामाजिकस्तरिकरण; Rawat Publication, Jaipur (Also available in English)
8. Ravindra Nath Mukherjee & Bharat Agrawal, सामाजिकस्तरिकरण; SBPD Publication, Agra
9. Haralambos and Holborn; Sociology themes & Perspectives
10. George Ritzer: Sociological Theory.

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SEMESTER-VI
MJC 11 – Sociological Thinkers I

Course Objectives

a) To acquaint the student with the foundational theorists of Sociology
b) Familiarize the students with early social theories.
c) To make student apply theories in understanding societies.

Course Outcomes

After the completion of the course, the student will be able to:

- Present the contributions of classical sociologists
- Get familiar with early sociological concepts.
- Compare the different sociological traditions
- Understand basic ideas of classical sociology

MJC 11 – Sociological Thinkers I (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Founding Fathers** a) August Comte: Law of three stages. Positivis b) Herbert Spencer: Social Evolution, Organic Analogy of society	10
2	**Emile Durkheim** a) Social Fact b) Division of Labour c) Suicide	10
3	**Max Weber** a) Social Action b) Ideal Types c) Sociology of Religion	15
4	**Karl Marx** a) Historical Materialism b) Mode of Production c) Class Struggle	15
5	**Turorial**	10
	TOTAL	**60**

Reading List:

1. Jonathan H. Turner; **The Structure of Sociological Theory**; Rawat Publications, Jaipur.
2. Haralambos&Holborn; **Sociology: Themes and Perspective**; Harper Collins Publisher India Ltd. Noida
3. George Ritzer; **Sociological Theory**; McGraw Hill Education India, Noida
4. Abraham & Morgan; **ModernSociological Theory**; Oxford University Press, New Delhi
5. Anthony Giddens; **Capitalism & Modern Social Theory**;Cambridge University Press India Pvt. Ltd. New Delhi
6. P.C. Jain & S.L. Doshi;प्रमुख समाजशास्त्रीय विचारक;Rawat Publication, Jaipur
7. Mujtaba Hussain (Ed.); समाजशास्त्रीय विचार;Orient Blackswan Pvt. Ltd., Hyderabad
8. J.P. Singh; समाजशास्त्रीय अवधरणाएँ एवंसिद्धांत; PHI Pvt. Ltd., New Delhi.

SEMESTER-VI

MJC 12 – Sociological Research Methods I

Course Objectives

a) To acquaint the student with the fundamentals of Social Research.
b) To familiarize the student with basic dimension of Social Research
c) To make students aware of how Social Research is implemented.

Course Outcomes

After the completion of the course, the student will be able to:

- Understand the need and importance of Social Research.
- Basics of sociological research methods
- Understand the methods of collecting and analyzing data.
- Define the basic terminology used in Social Research.

MJC 12 – Sociological Research Methods I (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Logic of Social Research** a. Social Research: Meaning and Characteristics b. Social Survey: Meaning, Characteristics, Distinction with Social Research c. Qualitative & Quantitative Research: Basic concept and application d. Scientific methods: Characteristics and steps.	20
2	**Methodological Perspective** a. Comparative Method b. Case Study Method	10
3	**Mode of Enquiry** a. Sources of data: Primary and Secondary b. Hypothesis: Meaning, importance and Characteristics	10
4	**Doing and Writing Research** a. Report writing: Characteristics and content of good report b. Field work and its importance in Social Research	10
5	**Tutorial**	10
	TOTAL	**60**

Reading List:

1. Ram Ahuja;**Research Methods;** Rawat Publications, Jaipur and New Delhi.
2. Kothari C.N.;**Social Research;**New Age International Publishers, New Delhi.
3. Vajpayee S.R.;**Social Survey and Research**, Kitab Ghar, Kanpur
4. Thakur Devendra;**Research Methodology in Social Sciences;**Deep Deep Publications Pvt. Ltd., Rajouri Garden, New Delhi.
5. Pauline V. Young;**Scientific Social Survey and Research;**PHI Pvt. Ltd., New Delhi
6. Ahuja Ram;सामाजिकअनुसंधान:Rawat Publiations. Jaipur and New Delhi.
7. Dr. Agrawal G.K. and Dr. Pandey S.S.:सामाजिक शोध; Sahitya Bhawan Publishers and Distributors Pvt. Ltd. Agra
8. Alan Bryman: Social Research Methods 7th ed.
9. राणा सुनील कुमार सिंह– सामाजिक शोध की पद्धति

SEMESTER-VI

MIC 7 – Sociology of Gender

Course Objectives

a) To acquaint the student with the basis sociological dimension of gender
b) To familiarize the students with gender based inequality.
c) To understand the dimension of feminism.

Course Outcomes

After the completion of the course, the student will be able to:

- Examine the gender issues from sociological point of view.
- Highlight the concept and theoretical perspective of feminism.
- Get acquainted with the various issues of gender discrimination in India.
- Feminist movement in India.

MIC 7 – Sociology of Gender (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Basic Concept** d) Sociology of Gender: Meaning, definition and subject matter e) Sex and Gender f) Patriarchy and Gender roles	10
2	**Theories of Feminism** a. Marxist b. Liberal c. Socialist d. Radical	10
3	**Gender inequality and Feminist movements** c) Gender inequality – Meaning, definitions, extent, factors and steps to eradicate gender inequality d) Feminist movement in India.	10
4	**Tutorial**	05
	TOTAL	**35**

Reading List:

1 S. Jackson and S. Scott (eds.); **Gender, A Sociological Reader**; Routledge, London.

2 Kumar Radha;**From Chipto to Sati, The Contemporary Indian Women's Movement in Nivedita Menon (Gender and Politics in India);** Oxford University Press, New Delhi.

3 Halberstam, Judith;**An Introduction to Female Masculinity**; Duke University Press, London (Also Delhi: Zubaan 2012) Re-print.

4 Walby, Sylvia;**Gender, Class and Stratification – Towards a new approach, A Sociological Reader**;Rout ledge, London

5 Kandiyoti, Deniz;**Bargaining with Patriarchy in Judith Lorber and Susan AFarrel (Eds.). Social Construction of Gender;** Sage Publication, New Delhi.

6 R.K. Rastogi;लिंग एवंसमाज; Sanjeev Prakashan, Jaipur

7 Savita Sharma;लिंग, विद्यालय एवंसमाज; Sri Vinod Pustak Mandir, Agra

8 Subhash Sharma;भारतीय महिलाओं की दशा; Aadhar Prakashan, Panchkula (Haryana)

9 Gopa Joshi;भारतमें स्त्री असमानता; Hindi MadhyamKaryanawayanNidheshalay, Delhi University, New Delhi

SEMESTER – VI

MIC-08 - Social Psychology – I

Course Objectives

(1) The course will help students understand how society impacts individuals, and how individual behaviors affect society.
(2) It will enable students to develop understanding of sociological concept and theories vis-à-vis society.
(3) Social Psychology helps students study scientifically human behaviors in groups.

Course Outcomes

After the completion of the course, the student will be able to:

- Get acquainted with the fundamental concept and its significance in social psychology.
- Analyze the psychological variables of group formations.
- Discuss the changing pattern of social learning.
- Explain the inter-dependent relationship between culture and personality.

Social Psychology – I (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** a) Subject matter and scope b) Relationship with other social sciences	08
2	**Group** a) Concept and characteristics b) Kinds of group	08
3	**Socialization** a) Meaning, definition and characteristics b) Stages and processes	08
4	**Culture & Personality** a) Concept and characteristics b) Inter relationship c) National culture	08
5	**Tutorial**	08
	TOTAL	**40**

Reading List:

1. Krech, Crutchfield and Ballachey;**Individual in Society;** McGraw Hill Book Co., Noida
2. K. Young;**Handbook ofSocial Psychology;** Routledge and Kegan Paul, London.
3. B. Kuppuswamy;**An Introduction toSocial Psychology;** Asia Publishing House, Bombay (also available in Hindi)
4. H.C. Lindgreen; **Introduction to Social Psychology;** John Wiley and Sons. Ltd., USA
5. Sherif and Sherif;**An Outline of Social Psychology;** Harper and Bros., New York
6. Rajendra Kumar Sharma;**Social Psychology;** Atlantic Publisher & Distributor, New Delhi

Ravindra Nath Mukherjee & Bharat Aggrawal;सामाजिक मनोविज्ञान; SBPD Publication, Agra

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SEMESTER – VII

MJC - 13 Advanced Sociological Theories

Course Objectives

(1) To introduce Students to Advanced Sociological Theories
(2) The Course enables students to apply sociological theories to their everyday experiences.
(3) It will help students develop their sociological imagination.

Course Outcomes

After the completion of the course, the student will be able to:

- Get acquainted with advance sociological theories.
- Throw light on the different aspects of symbolic interaction.
- Know the post structural dimensions of sociology.
- Understand the different aspects of exchange

MJC 13 – Sociological Thinkers II (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Talcott Parsons** (a) Functionalism (b) Pattern Variables	10
2	**Levis Strauss** :Structuralism	10
3	**G.H. Mead and Blumer** (a) Interaction and Self (b) Symbolic Interactionism	10
4	**Indian Social Thinkers** **(a)** G.S. Ghurye **(b)** M.N. Srinivas **(c)** Radhakamal Mukherjee **(d)** Mahatama Gandhi **(e)** Raja Ram Mohan Roy	20
5	**Tutorial**	**10**
	Total	**60**

Reading List:

1. Jonathan H. Turner; **The Structure of Sociological Theory;** Rawat Publications, Jaipur.
2. Haralambos&Holborn; **Sociology: Themes and Perspective;** Harper Collins Publisher India Ltd. Noida
3. Mead G.H.; **Mind, Self and Society;**University of Chicago Press, Chicago
4. George Ritzer; **Sociological Theory;** McGraw Hill Education India, Noida
5. Abhraham& Morgan; **ModernSociological Theory;** Oxford University Press, New Delhi
6. Anthony Giddens; **Capitalism & Modern Social Theory;**Cambridge University Press India Pvt. Ltd. New Delhi
7. Parson T. And Shills E. (Eds.);**Towards General Theory of Action;**Harper and Row Publishers, New York
8. Levi Strauss;**Structure and Dialectics in Structural Anthropology;** Vol.1, Harmondsworth, Penguin
9. P.C. Jain & S.L. Doshi; प्रमुख समाजशास्त्रीय विचारक;Rawat Publication, Jaipur
10. Muztaba Hussain (Ed.); समाजशास्त्रीय विचार;Orient Blackswan Pvt. Ltd., Hyderabad
11. J.P. Singh; समाजशास्त्रीय अवधरणाएँ एवं सिद्धांत;PHI Pvt. Ltd., New Delhi.

19/09/23 19/09/23 19/09/2023 19.9.23 19.9.23

12. Doshi S.L. & Trivedi M.S.;उच्चतरसमाजशास्त्रीय सिद्धांत;Rawat Publications, Jaipur
13. श्यामधर सिंह : *आधुनिक समाजशास्त्र के सिद्धान्त*, सपना अशोक प्रकाशन, बनारस
14. B.K. Nangla Indian Social Thought (Also available in Hindi)
15. M.N. Srinivas Social Change in modern India

SEMESTER-VII

MJC-14-Sociological Research Methods II

Course-objectives

1. Understand basics in Social Research Methodology and applying them in Research / Project work.
2. This course will help them to select and appropriate Research Design.
3. The student will able to demonstrate the ability to choose methods appropriate to research objective.
4. To enable students to undertake independent social research.

Course Outcomes

After the completion of the course, the student will be able to:

- Analyze the operational techniques of social research.
- Get acquainted with the use of statistics in analyzing data.
- Minimize the deviation in social research.
- Present research report in a scientific manner.

MJC-14- Sociological Research Methods II (Theory : 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
I	**Social Research** a. Stages of Social Research b. Hypothesis. Sources and Types	12
II	**Methods of Social Research** a. Sampling-Meaning and Types b. Research Design.:-Meaning. Objectives and Types c. Tools of Data Collection:- Interview. Questionnaire. Schedule. Observation & Case Study.	12
III	**Statistical Method** a. Measurement in Social Research:-Meaning b. Measurement of Central tendency:- Mean, Median and Mode c. Scale:-Thurston Likert and Bogardus	12
IV	**Data Analysis** a. Coding and Tabulation of Data b. Analysis and Interpretation of Data	12
V	**Tutorial**	12
	Total	60

Reading List:

1. P.V. Young; **Scientific Social Surveys & Research**; PHI Pvt. Ltd. New Delhi.
2. Ram Ahuja: **Research Methods**; Rawat Publications, Jaipur and New Delhi (also available in Hindi)
3. C.N. Kothari; **Social Research**: New Age International Pvt. Ltd., New Delhi.
4. S.R. Bajpai: **सामाजिक अनुसंधान** : Kitab Ghar, Kanpur
5. G.K Aggarwal and S.S Pandey; **सामाजिक शोध**; Sahitya Bhawan Publishers and Distributors Pvt. Ltd; Agra
6. राणा सनील कुमार सिंह– सामाजिक शोध की पद्धति।

SEMESTER-VII

MJC-15 Population Studies

Course Objectives

(i) The course provides a critical understanding of the interface between population and society.
(ii) It analyzes the role of fertility, mortality and migration on the composition, size of population.
(iii) It helps understand the structure of population in general and Indian population in particular.

Course Outcomes

After the completion of the course, the student will be able to:

- Get comprehensive knowledge of the demographic variables of sociology.
- Analyze critically the existing theories of population growth.
- Will be able to understand the significance of the demographic data in sociological research.
- Identify the compositional elements of population defined.

MJC -15 Population Studies

(Theory: 6 credits)

Unit	Topics to be covered	No. of Lectures
1	**Introducing Population Studies** a) Definition, Nature and Scope b) Relationship with other Social Sciences c) Importance & Implications	15
2	**Concept and Approaches – I** a) Malthusian theory b) Marxist theory	15
3	**Concept and Approaches – II** a) Demographic Transition theory b) Optimum theory	15
4	**Composition of Population** a) Age & Sex b) Marital Status c) Characteristics of Indian Population	15
5	**Tutorial**	10
	TOTAL	**70**

Reading List:

1. Ashish Bose;**India's Population Policy;** B.R. Publication Corporation, New Delhi.
2. S.N. Agarwala;**India's population problem;**Tata McGraw Hill Publishing Company, Noida
3. S. Chandrashekhar;**Asia's Population Problems;** Greenwood Press, California
4. Thompson and Lewis;**Population Problems**, Tata McGraw Hill Publishing Company, Noida
5. Samir DasGupta (ed.);**SocialDemography;** Pearson Education India, Delhi
6. M.L. Jhingan, B.K. Bhatt & J.N. Desai;**Demography**;Vrinda Publications (P) Ltd., Delhi
7. V.C. Sinha & Pushpa Rani;जनांकिकी के सिद्धांत; Mayur Paperbacks, Noida
8. J.P. Mishra;जनांकिकी; Sahitya Bhawan Publications, Agra.
9. D.S. Baghel& Kiran Baghel;जनांकिकी; Vivek Publication, Delhi

SEMESTER-VII

MIC 9 – Social Change and Development in India

Course Objectives

(1) The Course enables students to explore issues relating to development.
(2) It helps students to understand the various processes of social change and continuity in both global and Indian contexts.
(3) Owing to its interdisciplinary nature, drawing from sociology, anthropology, economics and political studies this course will helps students analyze different approaches to development.

Course Outcomes

After the completion of the course, the student will have to:

- Formulate the sociological concepts related to social change.
- Critically examine its theoretical perspectives.
- Assess the traditional and modern processes of social change.
- Evaluate the measures of planned social change in India.

MIC-9 – Social Change and Development in India (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Basic Concepts** d) Meaning of Social Change, Social Development and Social Progress	10
2	**Theories of Social Change** Evolutionary, Cyclical and Conflict Theory	10
3	**Process of Social Change in India** (a) Westernization and Sanskritization: Concept and Impacts	10
4	**Planned Change in India** d) Niti Ayog: Objectives, Achievements and Limitations e) MANREGA: Objectives & Achievements f) Panchayati Raj in Bihar: Structure and Functions	10
5	**Tutorial**	10
	TOTAL	**50**

Reading List:

1. A.R. Radcliffe Brown & D. Forde;**African System of Kinship and Marriage**; Oxford University Press, London
2. E.E. Evans-Pritchard; 'The Nuer of Southern Sudan' in R. Parking and L. Stone (eds.) **Kinship and Family: An Anthropological Reader**; Blackwell, U.S.A.
3. A.M. Shah; 'Changes in the Indian Family: An Examination of Some Assumptions', in **The Family in India: Critical Essays**; Orient Longman, New Delhi
4. Susan Martha Kahn, Eggs and Wombs; The Origins of Jewishness', in R. Parking and L. Stone (eds.) **Kinship and Family: An Anthropological Reader**; Blackwell, U.S.A.
5. E. Kathleen Gough; 'The Nayars and the Defintion of Marriage', in **The Journal of the Royal Anthropological Institute of Great Britian and Ireland; 89:23-24**
6. Robin Foxs;नातेदारी एवं विवाह;Madhya Pradesh Hindi Granth Academy, Bhopal
7. Shobhita Jain;भारत में परिवार, विवाह और नातेदारी; Rawat Publications, Jaipur

SEMESTER-VIII
MJC 16 - Social Anthropology – I

Course-objectives

1. An understanding of the three main anthropological approaches to the study of the humanity: Cross Cultural comparison holism and evolutionary and uses of each.
2. Student will be able to understand the concept of tribal society and culture.
3. The course will enable to have an overview of various aspects of tribal communities

Course Outcomes

After the completion of the course, the students will be able to:

- Identify socio-cultural variables in explaining primitive social institutions.
- Interpret the continuity of socio-cultural elements.
- Compare the organizational structure of aboriginal population.
- Present their views in context of elementary forms of religion.

MJC 16-Social Anthropology – I
(Theory: 4 credits)

Unit	Topics to be covered	No. of Lectures
1	**Introduction** a) Meaning, definition and subject matter b) Why Social Anthropology studies primitive societies c) Relationship with other social sciences	10
2	**Social Institutions** a) Tribal Marriage: Meaning, function and types, ways of acquiring mates in primitive societies b) Tribal Family: Definition, characteristics, types and importance c) Tribal Kinship: Concept, types and usages,	10
3	**Organizational Structure** a) Lineage: Definition and characteristics b) Clan: Concept, origin and role in tribal life c) Phratry and Moiety: Meaning, concept and difference d) Youth organization: Structure and function	10
4	**Religion** a) Meaning, definition and functions of religion b) Theories: Animism, Animatism and Naturalism c) Magic: Concept, Types and distinction with religion	10
5	**Tutorial**	10
	TOTAL	**50**

Reading List:

1. Majumdar D. N. and Madan T.N.;**An Introduction to Social Anthropology;**Mayoor Paperbacks, Noida, Delhi (also available in Hindi)
2. Lucy Mair;**An Introduction to Social Anthropology;**Oxford University Press, Second edition. (also available in Hindi)
3. L.P. Vidyarthi&Binay Kumar Rai;**The Tribal Culture of India;** Concept Publishing Company, New Delhi (also available in Hindi)
4. Nadim Hasnain;सामान्य मानवशास्त्र;Jawahar Publishers and Distributors, New Delhi. (also available in English)
5. Nadim Hasnain;जनजातीय भारत; Jawahar Publishers and Distributors, New Delhi. (also available in English)
6. Mukherjee Ravindra Nath;सामाजिकमानवशास्त्र की रूपरेखा; Vivek Prakashan, Jawahar Nagar, Delhi
7. Ramnath Sharma & Rajendra Kumar Sharma;मानवशास्त्र; Atlantic Publishing & Distributors, New Delhi (also available in English)

SEMESTER-VIII

MIC-10 – Social Stratification

Course Objectives

(1) The course introduces students to sociological studies of social inequalities.
(2) The topics will be helpful for the students in understanding the nuances of social inequalities and their manifestations in various forms.
(3) It will be help student to differentiate between class and caste based in inequalities.

Course Outcomes

After the completion of the course, the student will be able to:

- Understand the concept of social stratification.
- Critically analyze the theoretical perspectives.
- Analyze the role of caste and class in the context of Indian society.
- Highlight the issues of ethnicity and identity in contemporary scenario.

MIC 10 – Social Stratification (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introducing Stratification** d) Concepts of Social Stratification e) Stratification and Inequality f) Bases of Stratification	14
2	**Identities and Inequalities** c) Caste as a System of Stratification d) Class as a System of Stratification	14
3	d) Difference between Caste and Class e) Race and Ethnicity f) Social Stratification and Social Mobility	14
4	Tutorial	08
	TOTAL	**50**

Reading List:

1. Peter Worsley:**Introducing Sociology**: Harmondsworth, Penguin Books.
2. C. N. Shanker Rao;**Principles of Sociology**;S. Chand and Company Ltd., New Delhi.
3. David Maclellan;**The Thoughts of Karl Marx**;Papermac, London,.
4. T.B. Bottomore;**Classes in Modern Society**;*Pantheon* Books,New York.
5. Wendy Bottero;**Stratification**; Routledge, London
6. Max Weber; Hans Heinrich Gerth and Wright Mills;**From Max Weber**;Oxford University Press, New York
7. K.L. Sharma;सामाजिकस्तरिकरण; Rawat Publication, Jaipur (Also available in English)
8. Ravindra Nath Mukherjee & Bharat Aggrawal, सामाजिकस्तरिकरण; SBPD Publication, Agra
9. Haralambos & Holborn : Sociology: Themes & perspectives.
10. Sociological Theory George Ritzer

Research Project / Dissertation

Credit- 12

A student will be awarded degree in UG Honors Major and Minor if He / She earns all the credits of I, II, III, IV, V, VI, VII & VIII Semesters. Students who want UG Degree Honors with Research in Major if he/ she obtains 7.5 C.G.P.A. and above in I to VI Semester. Such students can choose a research stream in the fourth year, and if they earn 80 credits, including 12 credit from the Research Project / dissertation, they will be awarded UG Degree (Honors with research).

September 20, 2023

To,

The Principal Secretary to Governor
Raj Bhavan, Patna.

Sub:-Submission of Uniform Syllabus for 4 year Undergraduate courses of Bachelor of Arts under CBCS in the subject of Home Science.

Sir,

With reference to letter No. BSU (UGC)-02/2023-1457/GS (I) dated-14.09.2023, a meeting of the panel of experts was held from 18.09.2023 to 20.09.2023 for preparation of syllabus in the subject of Home Science. We are submitting the syllabus on 20.09.2023.

Your Sincerely,

1. Prof. Anju Srivastava
   P.G. Department of Home Science
   Patna University, Patna

2. Prof. Kumkum Kumari
   P.G. Department of Home Science
   Patliputra University, Patna

3. Prof. Renu Kumari
   P.G. Department of Home Science
   BRA Bihar University, Muzaffarpur

4. Prof. Manju Kumari Sinha
   P.G. Department of Home Science
   Jai Prakash University, Chapra

5. Dr. Tuhina Vijay
   P.G. Department of Home Science
   Purnea University, Purnea

6. Dr. Vimi Singh
   Department of Home Science, Sri Arvind Mahila College
   Patliputra University, Patna

7. Dr. Bimla Kumari
   P.G Department of Home Science
   BN Mandal University, Madhepura

Bimla Kumari
20.9.2023

8. Dr. Nirmala Kumari
   P.G Department of Home Science
   Munger University, Munger

Nirmala
20-9-23

9. Dr. Rajni Pandey
   Department of Home Science, Magadh Mahila College.
   Patna University, Patna

Rajni Pandey
20.09.2023

10. Dr. Prachi Marwaha
    P.G. Department of Home Science
    LNMU, Darbhanga.

Prachi
20/09/2023

11. Dr. Smita Kumari
    P.G Department of Home Science
    Magadh University, Bodhgaya

Smita
20/09/2023

4 - Year Undergraduate Programme

Bachelor of Arts (Honours)
(Under CBCS)

Home Science

Bachelor of Arts (Honours)
(Under CBCS)

Home Science

Programme Code:

(A) Major Core Course

S. No	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	MJC-1	Food and Nutrition (Th)	4	100
2.	I	MJC-1	Foods and Nutrition (P)	2	100
3.	II	MJC-2	Fundamentals of Human Development (Th)	4	100
4.	II	MJC-2	Fundamentals of Human Development (P)	2	100
5.	III	MJC-3	Resource Management Concepts and Context	5	100
6.	III	MJC-4	Human Physiology	4	100
7.	IV	MJC-5	Communication &Extension (Th)	3	100
8.	IV	MJC-5	Communication & Extension(P)	2	100
9.	IV	MJC-6	Introduction to Textile (Th)	3	100
10.	IV	MJC-6	Introduction to Textile (P)	2	100
11.	IV	MJC-7	Planning & Designing interior space (Th)	3	100
12.	IV	MJC-7	Planning & Designing interior space(P)	2	100
13.	V	MJC-8	Child Psychology	5	100
14.	V	MJC-9	Family Finance & Consumer Behavior	5	100
15.	VI	MJC-10	Non-Formal, Adult and Lifelong Education	4	100
16.	VI	MJC-11	Child Rights and Social action	5	100
17	VI	MJC-12	Dietetics (Th)	3	100
18.	VI	MJC-12	Dietetics (P)	2	100
19.	VII	MJC-13	Clothing Construction (Th)	3	100
20.	VII	MJC-13	Clothing Construction(P)	2	100
21.	VII	MJC-14	Research Methodology	5	100
22.	VII	MJC-15	Early Childhood Care and Education (Th)	4	100
23.	VII	MJC-15	Early Childhood Care and Education (P)	2	100
24.	VIII	MJC-16	Public Health Nutrition	4	100

Kumkum Kumari 20.09.2023

20.09.2023

Manju Kumari Sinha 20/09/2023

20.9.2023

20.09.2023

Renu Kumari 20/9/2023

20/9/23

20-9-23

20.9.23.

20-9-23

20/09/23

(B) Minor Course to offered by the Department for students of other Departments of Social Science

S. No	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	MIC-1	Food and Nutrition (Th)	2	100
2.	I	MIC-1	Food and Nutrition (P)	1	100
3.	II	MIC-2	Fundamentals of Human Development (Th)	2	100
4.	II	MIC-2	Fundamentals of Human Development (P)	1	100
5.	III	MIC-3	Resource Management Concepts and Context	3	100
6.	IV	MIC-4	Communication &Extension (Th)	2	100
7.	IV	MIC-4	Communication & Extension(P)	1	100
8.	V	MIC-5	Child Psychology	3	100
9.	V	MIC-6	Family Finance & Consumer Behavior	3	100
10.	VI	MIC-7	Dietetics (Th)	2	100
11.	VI	MIC-7	Dietetics (P)	1	100
12.	VI	MIC-8	Food Safety, Sanitation and Hygiene	3	100
13.	VII	MIC-9	Clothing Construction (Th)	2	100
14.	VII	MIC-9	Clothing Construction(P)	1	100
15.	VIII	MIC-10	Public Health Nutrition	4	100

(C) Multidisciplinary Courses to be offered

S. No	Semester	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	Food and Nutrition (Th)	2	100
2.	I	MDC-1	Food and Nutrition (P)	1	100
3.	II	MDC-2	Fundamentals of Human Development (Th)	2	100
4.	II	MDC-2	Fundamentals of Human Development (P)	1	100
5.	III	MDC-3	Resource Management Concepts and Context	3	100

21.05.2023.

Manju Kumari Sinha 20/09/2023

Kumkum kumari 20.09.2023

20.9.2023

Renu Kumari 20/9/2023

20-9-23

Rajni Pandey. 20.9.23.

20/9/23

20/9/23

Bachelor of Arts (Honours)
(Under CBCS)
Home Science

Programme Outcome

At the completion of the programme, students will attain the ability to:

PO1: To impart the fundamental knowledge in all the major domains of Home Science and related areas of studies.

PO2: To develop competency in application of knowledge in different settings i.e. family, community, workplace etc.

PO3: To impart and develop skills for professional life.

PO 4: To prepare for higher degree with specializations, create professionals in different related areas, foster research & development, teaching, government and public service and entrepreneurship.

Programme Specific Outcome

At the completion of the programme, students will attain the ability to:

PSO1: Demonstrate abilities involved in acting as proactive agents of change in promoting the discipline of Family and Community Sciences.

PSO2: Demonstrate inclination toward acquiring knowledge and doing in-depth studies on allied subjects of Home Science, for instance Ergonomics in Resource Management; Chemistry in Textiles and Clothing.

PSO3: Explore and decide upon viable avenues of self-employment and entrepreneurship plus career options in different facets of Home Science disciplines.

PSO4: Analyze and apply research findings for the use of societal needs and contribute to nation building strategies

Bachelor of Arts (Honours)

(Under CBCS)

Home Science

Semester I

Sl. No.	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Food and Nutrition (Th)	MJC-1	4-1-0	4	100
2.	Foods and Nutrition (P)	MJC-1	0-0-4	2	100
3.	Food and Nutrition (Th)	MIC-1	2-1-0	2	100
4.	Food and Nutrition (P)	MIC-1	0-0-2	1	100
5.	Food and Nutrition (Th)	MDC-1	2-1-0	2	100
6.	Food and Nutrition (P)	MDC-1	0-0-2	1	100
7.	MIL	AEC-1	2-1-0	2	100
8.	Skill Enhancement Course	SEC-1	1-0-3	3	100
9.	Value Added Course	VAC-1	1-0-3	3	100
					Total Credit-20

SEMESTER – I
MJC-1: Food and Nutrition

Course Outcomes:

CO1: Understand the relationship between food, nutrition and health

CO2: Understand the role and functions of nutrients, its composition, requirements and the effect of deficiency and excess

CO3: Understand the concept of an adequate diet and the importance of meal planning

CO4: Describe different methods of cooking and its impact on the stability of nutrients.

MJC-1: Food and Nutrition (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Food and Nutrition** • Definition and terms used in Food and Nutrition • Functions of food • Concept of Balanced Diet • Malnutrition: Types, causes, symptoms and treatment • Meal planning–steps in meal planning, factors affecting meal planning for a family • Food Exchange list, Food pyramids	06
2	**Basic concepts, classification, composition, nutritive value and role in cookery of different food groups.** • Cereals and Cereal Products • Pulses and Legumes • Fruits and Vegetables • Salt, Sugar and Jaggery • Nuts, Oils and Oil seeds • Milk and Milk Products • Eggs, Meat, poultry and fish Spices and Condiments -Importance and functional properties	12
3	**Macronutrients** Definition, classification, dietary Sources, functions, Recommended Dietary Allowances, clinical signs and symptoms of Deficiency diseases and Excess of • Carbohydrates • Proteins • Lipids Water	10
4	**Micro nutrients** **Minerals** • Classification, Sources, functions and deficiency of Calcium, Phosphorus, Magnesium, Sodium, Potassium, Selenium, Iron, Zinc, Iodine, Copper	08

	Vitamins • Classifications, functions, sources, requirement, clinical signs and symptoms and deficiency of: -Fat Soluble Vitamins - A, D, E and K - Water Soluble Vitamins-B Complex Vitamins- Thiamine, Riboflavin, Niacin, Pyridoxine, Folic acid, Cyanocobalamin and Vitamin C	
5	**Methods of Cooking** • Types, Advantages and disadvantages of cooking methods • Moist heat methods –boiling, simmering, steaming, & Pressure cooking • Dry heat methods – baking, Microwave • Fat as a medium for Coking-shallow and deep fat frying	04
	TOTAL	40

Suggested Readings:

- Bamji, MS., Krishnasamy, K., Brahmam ,G.N.V. (2012). Text Book of Human Nutrition, 3rd Edition, Oxford and IBH Publishing Co. P. Ltd., New Delhi.
- Longvah, T., Ananthan, R., Bhaskarachary, K., Venkaiah, K. (2017). Indian Food
- Composition Tables (IFCT), Indian Council of Medical Research, National Institute of Nutrition, Hyderabad.
- Maney, S. (2008). Foods, Facts and Principles, 3rd Edition Published by Wiley Eastern, New Delhi.
- aina, U., Kashyap, S., Narula, V., Thomas S, Suvira., VirS., Chopra, S. (2010). Basic Food Preparation: A Complete Manual, 4th Edition, Orient Black Swan Ltd, Mumbai.
- Srilakshmi, B. (2017). Nutrition Science, New Age International (P) Ltd., New Delhi.
- Sunetra, Roday. (2017). Food Science and Nutrition, Oxford University Press, New Delhi.
- Usha, Chandrasekhar. (2002). Food Science and Application in Indian Cookery, Phoenix Publishing House P. Ltd., New Delhi.

MJC-1: Foods and Nutrition	
Practical: 2 Credits	**Total -20 Hours**

1. **Basic Cooking skills**
   Weights and measures - standard and household measures for raw and cooked foods.
2. **Preparation of various dishes using different methods of cooking**
   - Boiling/steaming
   - Roasting
   - Frying-Deep/shallow
   - Pressure cooking
3. **Food Preparation, understanding the principles involved, nutritional quality of commonly consumed recipes in each food group**
   - Cereals
   - Pulses
   - Vegetables
   - Milk and milk products
   - Meat, fish and poultry preparations
   - Egg preparations
4. **Different styles of cutting fruits and vegetables**
   - Salad Decoration/Dressing
   - Table setting, Napkin Folding

Suggested Readings:

- Srilakshmi B, (2007), Dietetics. New Age International publishers. New Delhi
- Srilakshmi B ,(2002), Nutrition Science. New Age International publishers. New Delhi
- Swaminathan M. (2002), Advanced text book on food and Nutrition. Volume I. Bappco.
- Gopalan. C., RamaSastry B.V., and S. C. Balasubramanian (2009), Nutritive value of Indian Foods. NIN. ICMR. Hyderabad.
- Mudambi S R and Rajagopal MV, (2008), Fundamentals of Foods, Nutrition & diet therapy by New Age International Publishers, New Delhi

SEMESTER – I
MIC-1: Food and Nutrition

Course Outcomes:

CO1: Obtain knowledge on food groups and its nutritional composition

CO2: Understand the concept of balanced diets and meal planning

CO3: Understand the role and functions of nutrients, its composition, requirements and the effect of Deficiency and excess

CO4: Describe different methods of cooking and ways to prevent nutrient losses.

MIC-1: Food and Nutrition		
	Theory: 2 credits	
Unit	**Topics to be covered**	**No. of Lectures**
1.	**Introduction to Food and Nutrition** • Definition and terms used in Food and Nutrition • Functions of food • Food pyramids • Concept of balanced diet • Malnutrition: Types, causes, symptoms and treatment. • Meal planning–steps in meal planning, factors affecting meal planning for a family	6
2.	**Basic Concepts, classification, composition and nutritive value of different Food Groups: -** • Cereals and cereal products • Pulses and legumes • Fruits and vegetables • Salt, sugar and jaggery • Nuts, oils and oil seeds • Milk and milk products • Eggs, meat, poultry and fish • Spices and condiments -importance and functional properties	6
3.	**Definition, classification, dietary sources, functions, clinical signs and symptoms of deficiency diseases and excess of:** • Macronutrients (Carbohydrate, Protein &Fat) • Micro nutrients (Minerals and Vitamins • Water and fibre	6
4.	**Types, advantages and disadvantages of Cooking methods.** • Moist heat methods –boiling, simmering, steaming, and Pressure cooking • Dry heat methods – baking. Microwave • Fat as a medium for Coking-shallow and deep fat frying	2
	TOTAL	20

Suggested Readings:

- Bamji, MS., Krishnasamy, K., Brahmam ,G.N.V. (2012). Text Book of HumanNutrition, 3rd Edition, Oxford and IBH Publishing Co. P. Ltd., New Delhi.
- Longvah, T., Ananthan, R., Bhaskarachary, K., Venkaiah, K. (2017). Indian Food
- Composition Tables (IFCT), Indian Council of Medical Research, National Institute of Nutrition, Hyderabad.
- Maney, S. (2008). Foods, Facts and Principles, 3rd Edition Published by Wiley Eastern,New Delhi.
- aina, U., Kashyap, S., Narula, V., Thomas S, Suvira., VirS., Chopra, S. (2010). BasicFood Preparation: A Complete Manual, 4th Edition, Orient Black Swan Ltd, Mumbai.
- Srilakshmi, B. (2017). Nutrition Science, New Age International (P) Ltd., New Delhi.
- Sunetra, Roday. (2017). Food Science and Nutrition, Oxford University Press, NewDelhi.
- Usha, Chandrasekhar. (2002). Food Science and Application in Indian Cookery,Phoenix Publishing House P. Ltd., New Delhi.

	MIC-1: Foods and Nutrition	
Practical: 1 Credit		**Total -10 Hours**
1	**Basic Cooking skills:** Weights and measures - standard and household measures for raw and cooked foods.	
2	Preparation of various dishes using different cooking methods from different food groups	
3	Table setting	

Suggested Readings:

- Srilakshmi B,(2007), Dietetics. New Age International publishers. New Delhi
- Srilakshmi B, (2002), Nutrition Science. New Age International publishers. New Delhi
- Swaminathan M. (2002), Ad vanced text book on food and Nutrition. Volume I. Bappco.
- Gopalan.C.,RamaSastry B. V., and S.C. Balasubramanian (2009), Nutritive value of Indian Foods. NIN. ICMR. Hyderabad.
- Mudambi S R and Rajagopal M V, (2008), Fundamentals of Foods, Nutrition & diet therapy by New Age International Publishers, New Delhi

SEMESTER – I
MDC-1: Food and Nutrition

Course Outcomes:

CO1: Obtain knowledge on food groups and its nutritional composition

CO2: Understand the concept of balanced diets and meal planning

CO3: Understand the role and functions of nutrients, its composition, requirements and the effect of Deficiency and excess

CO4: Describe different methods of cooking and ways to prevent nutrient losses.

MDC-1: Food and Nutrition		
Theory: 2 credits		
Unit	**Topics to be covered**	**No. of Lectures**
1.	**Introduction to Food and Nutrition** • Definition and terms used in Food and Nutrition • Functions of food • Food pyramids • Concept of balanced diet • Malnutrition: Types, causes, symptoms and treatment. • Meal planning–steps in meal planning, factors affecting meal planning for a family	6
2.	**Basic Concepts, classification, composition and nutritive value of different Food Groups: -** • Cereals and cereal products • Pulses and legumes • Fruits and vegetables • Salt, sugar and jaggery • Nuts, oils and oil seeds • Milk and milk products • Eggs, meat, poultry and fish • Spices and condiments -importance and functional properties	6
3.	**Definition, classification, dietary sources, functions, clinical signs and symptoms of deficiency diseases and excess of:** • Macronutrients (Carbohydrate, Protein &Fat) • Micro nutrients (Minerals and Vitamins • Water and fibre	6
4.	**Types, advantages and disadvantages of cooking methods.** • Moist heat methods –boiling, simmering, steaming, and Pressure cooking • Dry heat methods – baking. Microwave • Fat as a medium for Coking-shallow and deep fat frying	2
	TOTAL	**20**

Suggested Readings:

- Bamji, MS., Krishnasamy, K., Brahmam ,G.N.V. (2012). Text Book of HumanNutrition, 3rd Edition, Oxford and IBH Publishing Co. P. Ltd., New Delhi.
- Longvah, T., Ananthan, R., Bhaskarachary, K., Venkaiah, K. (2017). Indian Food
- Composition Tables (IFCT), Indian Council of Medical Research, National Institute of Nutrition, Hyderabad.
- Maney, S. (2008). Foods, Facts and Principles, 3rd Edition Published by Wiley Eastern,New Delhi.
- aina, U., Kashyap, S., Narula, V., Thomas S, Suvira., VirS., Chopra, S. (2010). BasicFood Preparation: A Complete Manual, 4th Edition, Orient Black Swan Ltd, Mumbai.
- Srilakshmi, B. (2017). Nutrition Science, New Age International (P) Ltd., New Delhi.
- Sunetra, Roday. (2017). Food Science and Nutrition, Oxford University Press, NewDelhi.
- Usha, Chandrasekhar. (2002). Food Science and Application in Indian Cookery,Phoenix Publishing House P. Ltd., New Delhi.

MDC-1: Foods and Nutrition	
Practical: 1 Credit	**Total -10 Hours**
1.Basic Cooking skills: Weights and measures - standard and household measures for raw and cooked foods. 2. Preparation of various dishes using different cooking methods from different food groups 3. Table setting	

Suggested Readings:

- Srilakshmi B,(2007), Dietetics. New Age International publishers. New Delhi
- Srilakshmi B, (2002), Nutrition Science. New Age International publishers. New Delhi
- Swaminathan M. (2002), Ad vanced text book on food and Nutrition. Volume I, Bappco.
- Gopalan.C.,RamaSastry B. V., and S.C. Balasubramanian (2009), Nutritive value of Indian Foods. NIN. ICMR. Hyderabad.
- Mudambi S R and Rajagopal M V, (2008), Fundamentals of Foods, Nutrition & diet therapy by New Age International Publishers, New Delhi

Bachelor of Arts (Honours)

(Under CBCS)

Home Science

SEMESTER II

Sl. No.	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Fundamentals of Human Development (Th)	MJC-2	4-1-0	4	100
2.	Fundamentals of Human Development (P)	MJC-2	0-0-4	2	100
3.	Fundamentals of Human Development (Th)	MIC-2	2-1-0	2	100
4.	Fundamentals of Human Development (P)	MIC-2	0-0-2	1	100
5.	Fundamentals of Human Development (Th)	MDC-2	2-1-0	2	100
6.	Fundamentals of Human Development (P)	MDC-2	0-0-2	1	100
7.	Environmental Science	AEC-2	2-1-0	2	100
8.	Skill Enhancement Course	SEC-2	1-0-3	3	100
9	Value Added Course	VAC-2	1-0-3	3	100
					Total Credit-20

SEMESTER – II

MJC- 2: Fundamentals of Human Development

Course Outcomes:

CO1: Explain the need and importance of studying human growth and development

CO2: Identify the biological and environmental factors affecting human development

CO3: Describe the characteristics, needs and developmental tasks of different stages in the human life cycle.

MJC-2: Fundamentals of Human Development		
(Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1.	**Introduction to Human Development** • Concept and History of Human Development • Scope of Child Development • Principles of Growth and Development. • Concept of heredity and environment. Factors affecting heredity and environment in development.	08
2.	**Prenatal Development, Birth Process and care in Infancy:** • Prenatal Development – stages, factors affecting, diagnostics techniques. • Birth Process - Stages of birth Process, Types of delivery • Immediate care of newborn, types of feeding - natural and artificial, weaning, immunization schedule, Common childhood illness	08
3.	**Development during Infancy (0-1 year):** • Physical development • Motor development • Social development • Emotional development • Cognitive Development • Language development	08
4.	**Development in Early Childhood Period (3 - 6 Years)** • Physical development • Motor development • Social development • Emotional development • Cognitive Development • Language development	08

5.	**Late Childhood period (6-12 Years)** • Physical development • Motor development • Social development • Emotional development • Cognitive Development • Language development	08
	TOTAL	**40**

Suggested Readings:

- Berk, L.E. (2005). Child development (5th ed.). New Delhi: Prentice Hall.
- Bhangaokar, R., & amp; Kapadia, S. (in press). Human Development Research in India: Ahistorical overview. In G. Misra (Ed.), Hundred years of Psychology in India. New Delhi: Springer.
- Feldman, R., & Babu, N. (2009). Discovering the life span. New Delhi: Pearson
- Kakar, S. (1998). The inner world. Psychoanalytic study of childhood and society in India. Delhi: Oxford University Press.
- Kapadia, S. (2011). Psychology and human development in India. Country paper.International Society for the Study of Behavioral Development Bulletin Number 2,Serial No. 60, pp.37-42.
- Keenan, T., Evans, S.,& Crowley, K. (2016). An introduction to child development.Sage.
- Lightfoot, C., Cole, M.,& Cole, S. (2012). The development of children (7thed.).New York: Worth Publishers.
- Santrock, J. (2017). A topical approach to life span development (9th ed.). New NY.:Megraw-Hill Higher Education.
- Singh, A. (2015). Foundations of Human Development: A life span approach. ND:Orient Black Swan.
- Walsh, B.A., Deflorio, L., Burnham, M. M., & amp; Weiser, D.A. (2017). Introduction to human Development and Family Studies. NY: Routledge.

MJC-2: Fundamentals of Human Development	
Practical: 2 Credits	**Total -20 Hours**
Practical: 1. Preparation of an album on growth chart of 0-12 months baby. 2. Study of children's (0-3 years) clothes, play materials and books.	

SEMESTER – II

MIC-2: Fundamentals of Human Development

Course Outcomes:

CO1: Explain the need and importance of studying human growth and development

CO2: Identify the biological and environmental factors affecting human development

CO3: Describe the characteristics, needs and developmental tasks of different stages in the human life cycle.

MIC- 2: Fundamentals of Human Development		
(Theory: 3 credits)		
Unit	Topics to be covered	No. of lecturers
1.	**Introduction to Human Development** • Concept and history of human development. • Principles of growth and development. • Concept of heredity and environment. Factors affecting heredity and environment in development.	08
2.	**Prenatal Development, Birth process and care in Infancy:** • Prenatal development – stages, factors affecting, diagnostics techniques. • Birth process - stages of birth process, Types of delivery • Immediate care of newborn, types of feeding - natural and artificial, weaning, immunization schedule, common childhood illness	12
3.	**Development during Infancy (0-1 year):** • Physical development • Motor development • Social development • Emotional development • Cognitive Development • Language development	10
	TOTAL	**30**

20/9/23

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16

20.9.23.

20/09/23

20/09/2023

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20-9-23

20-09-2023

20/9/2023

20-9-23

Suggested Readings:

- Berk, L.E. (2005). Child development (5th ed.). New Delhi: Prentice Hall.
- Bhangaokar, R., & Kapadia, S. (in press). Human Development Research in India: Ahistorical overview. In G. Misra (Ed.), Hundred years of Psychology in India. NewDelhi: Springer.
- Feldman, R., & Babu, N. (2009). Discovering the life span. New Delhi: Pearson
- Kakar, S. (1998). The inner world. Psychoanalytic study of childhood and society in India. Delhi: Oxford University Press.
- Kapadia, S. (2011). Psychology and human development in India. Country paper.International Society for the Study of Behavioral Development Bulletin Number 2,Serial No. 60, pp.37-42.
- Keenan, T., Evans, S.,& Crowley, K. (2016). An introduction to child development.Sage.
- Lightfoot, C., Cole, M., & Cole, S. (2012). The development of children (7thed.).NewYork: Worth Publishers.
- Santrock, J. (2017). A topical approach to life span development (9th ed.). New NY.:Mcgraw-Hill Higher Education

SEMESTER – II

MDC-2: Fundamentals of Human Development

Course Outcomes:

CO1: Explain the need and importance of studying human growth and development

CO2: Identify the biological and environmental factors affecting human development

CO3: Describe the characteristics, needs and developmental tasks of different stages in the human life cycle.

MDC- 2: Fundamentals of Human Development		
(Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of lecturers**
1.	**Introduction to Human Development** • Concept and history of human development. • Principles of growth and development. • Concept of heredity and environment. Factors affecting heredity and environment in development.	08
2.	**Prenatal Development, Birth process and care in Infancy:** • Prenatal development – stages, factors affecting, diagnostics techniques. • Birth process - stages of birth process, Types of delivery • Immediate care of newborn, types of feeding - natural and artificial, weaning, immunization schedule, common childhood illness	12
3.	**Development during Infancy (0-1 year):** • Physical development • Motor development • Social development • Emotional development • Cognitive Development • Language development	10
	TOTAL	**30**

Suggested Readings:

- Berk, L.E. (2005). Child development (5th ed.). New Delhi: Prentice Hall.
- Bhangaokar, R., & Kapadia, S. (in press). Human Development Research in India: Ahistorical overview. In G. Misra (Ed.), Hundred years of Psychology in India. NewDelhi: Springer.
- Feldman, R., & Babu, N. (2009). Discovering the life span. New Delhi: Pearson
- Kakar, S. (1998). The inner world. Psychoanalytic study of childhood and society in India. Delhi: Oxford University Press.
- Kapadia, S. (2011). Psychology and human development in India. Country paper.International Society for the Study of Behavioral Development Bulletin Number 2,Serial No. 60, pp.37-42.
- Keenan, T., Evans, S.,& Crowley, K. (2016). An introduction to child development.Sage.
- Lightfoot, C., Cole, M., & Cole, S. (2012). The development of children (7thed.).NewYork: Worth Publishers.
- Santrock, J. (2017). A topical approach to life span development (9th ed.). New NY.:Mcgraw-Hill Higher Education

Bachelor of Arts (Honours)
(Under CBCS)
Home Science

SEMESTER III

S. No	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Resource Management Concepts and Context	MJC-3	5-1-0	5	100
2.	Human Physiology	MJC-4	4-1-0	4	100
3	Resource Management Concepts and Context	MIC-3	3-1-0	3	100
4.	Resource Management Concepts and Context	MDC-3	3-1-0	3	100
5.	Ability enhancing Course (Course on Disaster Risk Management)	AEC-3	2-1-0	2	100
6.	Skill Enhancement Course	SEC-3	1-0-3	3	100
					Total Credit- 20

SEMESTER- III

MJC-3: Resource Management Concepts and Contexts

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop understanding on the concepts related to family resource management

CO2: Understand the significance of management process in efficient use of resources

CO3: Imbibe nuances of human values and standards for successful management and decision making

CO4: Focus on management of human and non-human family resources

MJC-3: Resource Management Concepts and Contexts (Theory: 5 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to resource management in family** • Introduction to home management- meaning, definitions, conceptual framework, need and philosophy • Ethics in management of resources – essential qualities for success • Motivating factors in management – Values, Standards and Goals	10
2	**Family Resources** • Meaning, definition, Concept, classification and characteristics of family resources • Factors affecting utilization of family resources • Maximizing use of family resources	06
3	**Functions of Management: An Overview** • Decision Making- Definition, steps, types of decision making, • Management process: Definitions and steps in management process: Planning, Controlling and Evaluation • Relation of Family Resource Management to other areas of Home Science	10
4	**Management process applicable to specific resource** • Money- Income, types of income, ways of increasing family income • Time – concept of time schedule, tools of time management • Energy – Energy need during different stages of family life cycle, fatigue, causes and removal of fatigue	12
5	**Ergonomics and Work simplification** • Ergonomics – concept and principles, work, worker and work environment relationship, role of work, workplace and equipment's (appliances) as sources of drudgery • Definition, need and advantages of work simplification • Work simplification techniques • Mervin Mundel's classes of change and Principles of motion economy.	12
	TOTAL	50

Suggested Readings:

- Management and Interior Decoration, Jaipur: Apple Printer and V. R. Printers.
- Deacon, R. F., and Firebaugh, F.M. (1975). Home Management: Contexts and Concepts. Boston: Houghton Mifflin Company.
- Fitzsimmons, C. (1950). The Management of Family Resources. California: W. H. Freeman Co.
- Gandotra,V., and Jaiswal, N.(2008). Management of Work in Home, New Delhi: Dominant Publishers and Distributors.(ISBN No. 81-7888-526-3).
- Grandjean, E., and Kroemer, K.H.E. (1999). Fitting the Task to the Human - A Text Book of Occupational Ergonomics, New York: Taylor and Francis.
- Gross. I.H., Crandall, E. W., and Knoll, M. M.(1980). Management for Modern Families. New Jersey: Prentice Hall Inc.
- Gross.I.H., and Crandall, E. W. (1967).Management for Modern Families. Delhi: Sterling Publishers.
- Koontz, H., and O'Donnel C. (2005).Management – A Systems and Contingency Analysis of Managerial Functions. New York: McGraw-Hill Book Company.
- Kreitner. R. (2009/2010). Management Theory and Applications. India: Cengage Learning India Pvt Ltd (ISBN 13: 9788131511244).
- Nickell, P., Rice, A. S., and Tucker, S.P. (1976).Management in Family Living. New York: John Wiley& Sons Inc.
- Nickell, P., and Dorsey, J. M. (2002). Management in Family Living. New Delhi: CBS Publishers (ISBN13: 9788123908519).
- RaoV.S.P., and Narayana P.S. (2008). Principles and Practices of Management. New Delhi: Konark Publishers Pvt. Ltd.(ISBN 13: 9788122000283).
- Seetharaman, P., Batra, S., and Mehra, P. (2005). An Introduction to Family Resource Management. New Delhi: CBS Publishers &Distributors (ISBN 13: 9788123911861).
- Shukul, M., and Gandotra,V . (2006). Home Management and Family Finance. New Delhi: Dominant Publishers and Distributors.(ISBN No. 81-7888-403-8).
- Swanson, B. (1983). Introduction to Home Management. New York: Macmillan Publishing Co. Inc.
- Varghese, M. A., Ogale. N., and Srinivasan, K. (1985).Home Management. New Delhi: New Age International (P) Limited, Publishers (ISBN 13: 9780852269046).

SEMESTER III
MJC4: Human Physiology
Course Outcomes

After the completion of the course, the student will be able to:

CO1: Gain the basic knowledge of human anatomy and physiology.
CO2: Define the main structures composing human body.
CO3: Explain structure and functions of cells, tissues and organ system of the human body.
CO4: Relate structure and functions of tissue.

MJC-4: Human Physiology (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Human Body** • Basic concepts of Organs, tissue and cell and their functions, Blood- Composition, blood groups and Functions	06
2	**Digestive System and Excretory Systems** **Digestive System** • Principal organs of the digestive system – Mouth, tongue, Teeth, Esophagus, Stomach, Small Intestine, Large Intestine, Rectum, Anus- structure & function • Process of Digestion of food • Role of hormones & enzymes in Digestion **Excretory System** • Structure and functions of Excretory System	10
3	**Cardiovascular System and Respiratory Systems** **Cardiovascular System** • Structure and functions of heart • Blood Pressure (Systolic & Diastolic Blood pressure) **Respiratory System** • Physiology of Respiratory Tract • Transport of Respiratory Gases in Blood	10
4	**Endocrine and Nervous System** **Endocrine Systems** • Introduction to Endocrinology • Functions of Hormones secreted by Pituitary Gland, Thyroid Gland and Parathyroid Gland and Adrenal Gland, Sex glands **Nervous System** • Structure and functions of Nervous System	08
5	**Reproductive System** • Structure and functions of Male and Female Reproductive Organs • Pregnancy and associated changes • Physiology of lactation.	06
	TOTAL	40

Suggested Readings:

- Chatterjee C.C (2016), Human Physiology Volume I, Medical Allied Agency, Kolkata
- Chatterjee C.C (2004), Human Physiology Volume II, Medical Allied Agency, Kolkata.
- Chaudhri, K. (1993) Concise Medical Physiology, New Central Book Agency (Parentral) Ltd., Calcutta.
- Kathleen J. W. Wilson, Anne Waugh, Allison Grant. Ross and Wilson Anatomy (2014),Physiology in Health and Illness. 12th Edition, Elsevier Publication, New Delhi
- Sembulingam, K. (2000) Essentials of Medical Physiology, Jaypee Brothers Medical Publishers (P) Ltd., New Delhi

SEMESTER- III

MIC-3: Resource Management Concepts and Contexts

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop understanding on the concepts related to family resource management
CO2: Understand the significance of management process in efficient use of resources
CO3: Imbibe nuances of human values and standards for successful management and decision making
CO4: Focus on management of human and non-human family resources

MIC-3: Resource Management Concepts and Contexts (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to resource management in family** • Introduction to home management- meaning, definitions, conceptual framework, need and philosophy • Motivating factors in management – Values, Standards and Goals	06
2	**Family Resources** • Meaning, definition, Concept, classification and characteristics of family resources • Factors affecting utilization of family resources	04
3	**Functions of Management: An Overview** • Decision Making- Definition, steps, types of decision making, • Management process: Definitions and steps in management process: Planning, Controlling and Evaluation	08
4	**Management process applicable to specific resource** • Money- Income, types of income, ways of increasing family income • Time – concept of time schedule, tools of time management • Energy – Energy need during different stages of family life cycle, fatigue, causes and removal of fatigue	06
5	**Work simplification** • Definition, need and advantages of work simplification • Work simplification techniques	06
	TOTAL	30

Suggested Readings:

- Management and Interior Decoration, Jaipur: Apple Printer and V. R. Printers.
- Deacon, R. F., and Firebaugh, F.M. (1975). Home Management: Contexts and Concepts. Boston: Houghton Mifflin Company.
- Fitzsimmons, C. (1950). The Management of Family Resources. California: W. H. Freeman Co.
- Gandotra,V., and Jaiswal, N.(2008). Management of Work in Home, New Delhi: Dominant Publishers and Distributors.(ISBN No. 81-7888-526-3).
- Grandjean, E., and Kroemer, K.H.E. (1999). Fitting the Task to the Human - A Text Book of Occupational Ergonomics, New York: Taylor and Francis.
- Gross. I.H., Crandall, E. W., and Knoll, M. M.(1980). Management for Modern Families. New Jersey: Prentice Hall Inc.
- Gross.I.H., and Crandall, E. W. (1967).Management for Modern Families. Delhi: Sterling Publishers.
- Koontz, H., and O'Donnel C. (2005).Management – A Systems and Contingency Analysis of Managerial Functions. New York: McGraw-Hill Book Company.
- Kreitner. R. (2009/2010). Management Theory and Applications. India: Cengage Learning India Pvt Ltd (ISBN 13: 9788131511244).
- Nickell, P., Rice, A. S., and Tucker, S.P. (1976).Management in Family Living. New York: John Wiley& Sons Inc.
- Nickell, P., and Dorsey, J, M. (2002). Management in Family Living. New Delhi: CBS Publishers (ISBN13: 9788123908519).
- RaoV.S.P., and Narayana P.S. (2008). Principles and Practices of Management. New Delhi: Konark Publishers Pvt. Ltd.(ISBN 13: 9788122000283).
- Seetharaman, P., Batra, S., and Mehra, P. (2005). An Introduction to Family Resource Management. New Delhi: CBS Publishers &Distributors (ISBN 13: 9788123911861).
- Shukul, M., and Gandotra,V . (2006). Home Management and Family Finance. New Delhi: Dominant Publishers and Distributors.(ISBN No. 81-7888-403-8).
- Swanson, B. (1983). Introduction to Home Management. New York: Macmillan Publishing Co. Inc.
- Varghese, M. A., Ogale. N., and Srinivasan, K. (1985).Home Management. New Delhi: New Age International (P) Limited, Publishers (ISBN 13: 9780852269046).

SEMESTER- III

MDC-3: Resource Management Concepts and Contexts

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Develop understanding on the concepts related to family resource management
- **CO2:** Understand the significance of management process in efficient use of resources
- **CO3:** Imbibe nuances of human values and standards for successful management and decision making
- **CO4:** Focus on management of human and non-human family resources

MDC-3: Resource Management Concepts and Contexts (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to resource management in family** • Introduction to home management- meaning, definitions, conceptual framework, need and philosophy • Motivating factors in management – Values, Standards and Goals	06
2	**Family Resources** • Meaning, definition, Concept, classification and characteristics of family resources • Factors affecting utilization of family resources	04
3	**Functions of Management: An Overview** • Decision Making- Definition, steps, types of decision making, • Management process: Definitions and steps in management process: Planning, Controlling and Evaluation	08
4	**Management process applicable to specific resource** • Money- Income, types of income, ways of increasing family income • Time – concept of time schedule, tools of time management • Energy – Energy need during different stages of family life cycle, fatigue, causes and removal of fatigue	06
5	**Work simplification** • Definition, need and advantages of work simplification • Work simplification techniques	06
	TOTAL	30

Suggested Readings:

- Management and Interior Decoration, Jaipur: Apple Printer and V. R. Printers.
- Deacon, R. F., and Firebaugh, F.M. (1975). Home Management: Contexts and Concepts. Boston: Houghton Mifflin Company.
- Fitzsimmons, C. (1950). The Management of Family Resources. California: W. H. Freeman Co.
- Gandotra,V., and Jaiswal, N.(2008). Management of Work in Home, New Delhi: Dominant Publishers and Distributors.(ISBN No. 81-7888-526-3).
- Grandjean, E., and Kroemer, K.H.E. (1999). Fitting the Task to the Human - A Text Book of Occupational Ergonomics, New York: Taylor and Francis.
- Gross. I.H., Crandall, E. W., and Knoll, M. M.(1980). Management for Modern Families. New Jersey: Prentice Hall Inc.
- Gross.I.H., and Crandall, E. W. (1967).Management for Modern Families. Delhi: Sterling Publishers.
- Koontz, H., and O'Donnel C. (2005).Management – A Systems and Contingency Analysis of Managerial Functions. New York: McGraw-Hill Book Company.
- Kreitner. R. (2009/2010). Management Theory and Applications. India: Cengage Learning India Pvt Ltd (ISBN 13: 9788131511244).
- Nickell, P., Rice, A. S., and Tucker, S.P. (1976).Management in Family Living. New York: John Wiley& Sons Inc.
- Nickell, P., and Dorsey, J, M. (2002). Management in Family Living. New Delhi: CBS Publishers (ISBN13: 9788123908519).
- RaoV.S.P., and Narayana P.S. (2008). Principles and Practices of Management. New Delhi: Konark Publishers Pvt. Ltd.(ISBN 13: 9788122000283).
- Seetharaman, P., Batra, S., and Mehra, P. (2005). An Introduction to Family Resource Management. New Delhi: CBS Publishers &Distributors (ISBN 13: 9788123911861).
- Shukul, M., and Gandotra,V . (2006). Home Management and Family Finance. New Delhi: Dominant Publishers and Distributors.(ISBN No. 81-7888-403-8).
- Swanson, B. (1983). Introduction to Home Management. New York: Macmillan Publishing Co. Inc.
- Varghese, M. A., Ogale. N., and Srinivasan, K. (1985).Home Management. New Delhi: New Age International (P) Limited, Publishers (ISBN 13: 9780852269046).

Bachelor of Arts (Honours)
(Under CBCS)
Home Science

SEMESTER IV

S. No	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Communication &Extension (Th)	MJC-5	3-1-0	3	100
2.	Communication & Extension(P)	MJC-5	0-0-4	2	100
3.	Introduction to Textile (Th)	MJC-6	3-1-0	3	100
4.	Introduction to Textile (P)	MJC-6	0-0-4	2	100
5.	Planning & Designing interior space (Th)	MJC-7	3-1-0	3	100
6.	Planning & Designing interior space(P)	MJC-7	0-0-4	2	100
7.	Communication &Extension (Th)	MIC-4	2-1-0	2	100
8.	Communication & Extension(P)	MIC-4	0-0-2	1	100
9.	Ability enhancing Course (Course on NCC/NSS/ NGO'S/Social Service/	AEC-4	2-1-0	2	100
Total Credit- 20					

SEMESTER – IV

MJC-5: Communication and Extension

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Gain knowledge on the need and importance of communication and its significance in exchange of information

CO2: Analyze the models of Communication and role of media in societal development

CO3: Perceive the importance of extension education

CO4: Acquire knowledge on the extension models and approaches

MJC-5: Communication and Extension (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	• Meaning, definition, nature, scope and importance of communication • Functions of communication–information function, command constructive function, influencers, persuasive function and integrative function. • Elements of Communication – three elements – source, message, receiver, four elements – encoding, decoding, sender and receiver, five elements– communicator, communicate, message, channel and feedback • Means of Communication –Oral, Written, Sign/signal, action, object • Types of Communication–Formal and Informal Communication • Pattern-one way, two-way, circular • Communication media– Printed electronic media • Advantages and Limitations of communication media	08
2	• Importance of communication in extension • Models of Communication-Aristotle Model, Shannon – Weaver Model, Berlo Model, Scharmm Model • Concept, purposes and significance of model in communication. • Barriers to Communication –semantic, psychological, organizational and personal	06
3	• Meaning, Scope, Objectives, Need of Extension Education • Philosophy and principles of extension education • Steps in extension teaching • Extension teaching methods • Audio Visual Aids	08

4	**Rural Sociology** • Meaning and definition of rural sociology • Scope of rural sociology • Characteristics of rural society • Elements of rural sociology • Importance of rural sociology for extension workers	04
5	**Rural Leadership** • Meaning and definition • Classification of leadership • Qualities of a leader • Role of a leadership • Identifying local leadership Methods of leadership training	04
	TOTAL	30

Suggested Readings:

- Dahama,O.P and Bhatnagar O.P.(1995) .Education and Communication for Development. New Delhi: Oxford and IBH Co.
- Gupta, D.(2007). Development Communication in Rural Sector. New Delhi: Mukhopadhyay Abhijeet Publication
- Nisha, M.(2006).Understanding Extension Education. New Delhi: Kalpay Publications
- Reddy, A.A.(2001).Extension Education. Bapatla: Sri Lakshmi Press
- Rogers Everett, M.(2003).Diffusion of Innovations,5th Ed. NewYork: The Free Press
- Singh, U.K and Nayak, A.K.(2007). Extension Education. New Delhi: Common Wealth Publishers
- Wilson, M.C., and Gallup,G.(1955). Extension Teaching Methods. Washington: US Department of Agriculture

MJC-5: Communication and Extension (Practical)	
Practical: 2 credits	**Total -20 Hours**
Practical: 1. Preparation of Audio-Visual Aids 2. Visit to a community 3. Interaction with people and understand the felt and unfelt need	

SEMESTER IV

MJC-6: Introduction to Textile

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Develop understanding of concept and basics of textiles.
- **CO2:** Develop critical understanding of the techniques of yarn and fabric manufacture.
- **CO3:** Identify the fibers, yarn and fabrics for its appropriate use.
- **CO4:** Develop a comprehensive skill of dyed and printed textiles

MJC-6: Introduction to Textile (Theory: 3 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Textiles** • Definition and Classification of textile fibers	04
2	**Fibers:** Origin, Properties, Identification and Manufacturing Process • Natural fibers – Vegetative, Animal and Mineral • Man-made fibers –Rayon, Nylon, Polyester	08
3	**Yarn and Fabric** **Yarn** • Types of yarns- Simple and Complex • Properties of yarn: strength, extension, fineness, length, diameter, composition. • Construction of yarn **Fabric** • Woven and non-woven fabrics • Knitted fabrics- Hand knitting and Machine knitting	10
4	**Finishes of Textiles** • Definition, Importance, Classification • Dyeing and Printing	05
5	**Care and Storage of textiles**	03
	TOTAL	30

Suggested Readings:

- Booth, J.E. (1996). Principles of Textile Testing. New Delhi: CBS Publishers & Distributors Pvt. Ltd.
- Corbman, P.B. (1983). Textiles: Fibre to Fabric. McGraw-Hill Publishers.
- Collier, B.J., & Epps, H.H. (1998). Textile testing and analysis. Prentice Hall Publishers. Sizing, Weighting, Degumming, Mercerizing, Sanforizing and Calendaring - Special finishes V 5.1 Laundry, storage and care of textiles Methods and care during laundering of different textiles 5 Practicals 1. Fiber identification: Identification of natural and manmade fibers i.e. burning test method 2. Dyeing: Dyeing of yarn/fabric with different classes of dyes a. Dyeing of cotton yarn and fabric with direct dyes 3. Printing of fabrics using: i. Direct style - block, stencil and screen ii. Resist style - Tie &Dye, Batik 4. Care of Textiles i. Stain removal 20 Total 60
- Dantyagi, S. (1996).Fundamentals of Textiles and their Care. India: Orient Black swan Private Limited.
- D'Souza, N. (2014).Fabric Care. New Delhi: New Age International Publishers.
- Greaves, P.H., Saville, B. P. (1995).Microscopy of textile fibres bios Scientific Publishers Gohl, E., Vile sky, L. (2003), Textile Science: an explanation of fiber properties (2 edition), New Delhi.
- Hollen, R. N., Saddler, J., & Langford, A. (1979).Textiles. Macmillan Publishers.
- Joseph, M. (1992), Introductory Textile Science. Sixth edition, California: Harcourt CollegePublishers
- Kadolph, S.J. 2009. Textiles. Tenth edition. New Delhi: Dorling Kindersley (India)
- Madhulika, P. (2013). Weaving. New Delhi: Random Publishing.
- Mahapatra, N.N. (2015). Textile Technology. New Delhi: A.P.H. Publishing Co-operation.
- Needles, L.H. (1986). Textile Fibers, Dyes, Finishes, and Processes. USA, New Jersey: Noyes Publications.
- Rastogi, D., & Chopra, S. (2017). Textile Science. India: Orient Blackswan Private Limited.
- Robert, R. & Mather, R. H. (2015). The Chemistry of Textile Fibers. Cambridge: RSC Publishers.
- Sekhri, S. (2011).Textbook of Fabric Science: Fundamentals to Finishing. India: PHI LearningPvt. Ltd.
- Smith, J.L. (2015).Textile Processing: Printing Dyeing Finishing. Chandigarh: Abhishek Publication.
- Tyagi, A. (2016).Handbook of Fashion and Textile Design. New Delhi: Sonali publication.
- Wynne,A., (1997).Textiles, The Motivate Series Mc Millain Education Ltd., London.

MJC-6: Introduction to Textile (Practical)	
Practical: 2 credits	**Total -20 Hours**
Practical : 1. Fiber identification: Visual inspection, Physical Method i.e. burning test method 2. Care of Textiles i. Stain removal	

SEMESTER IV

MJC-7: Planning and Designing Interior Space

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Get acquainted with selection of site and building principles in real life situations
- **CO2:** Enable reading and comprehending building plans, evaluating and drafting them
- **CO3:** Appreciate principles of design and the contributing factors and refine personal aesthetic senses

MJC-7: Planning and Designing Interior Space (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Concept of Housing** • Definition, importance and functions of a house, family's housing needs, housing as a symbol of standard of living	03
2	**Constructional Considerations in Designing Interior Spaces** • Selection of site for houses, factors influencing and legal aspects • Building materials- Types, characteristics and use Concept of green buildings and eco-friendly materials as modern trends in building construction	10
3	**Fundamentals in Designing Interior Space** • Concept and meaning of aesthetics, perception and good taste in designing • Design: Definition and types • Elements and Principles of design	07
4	**Aesthetic and Functional Considerations in Designing Interior Space** • Color harmonies- Use and application in interiors • Furniture– Classification, styles, use and factors influencing selection • Lighting- Requirements of good lighting and its use • Accessories in the interior– Definition, use and role in interior designing	06
5	**Building Services in an Interior** • Waste disposal methods • Rain water harvesting system	04
	TOTAL	30

Suggested Readings:

- Alexander, N.J. (1972). Designing Interior Environment. New York: Harcourt Brace, Johanovich Inc.
- Ball, V. K. (1982). Art of Interior Design. New York: John Wiley & Sons.
- Bhargava, B. (2001).Family Resource Management and Interior Decoration, Delhi: University Book House.
- Bhargava, B. (2001). Housing and Space Management. Jaipur: University Book House Ltd.
- Bharucha, E. (2005). Text Book of Environmental Studies.University Grants Commission.
- Bhatt P.D., and Goenka, S. (1990). Foundation of Arts Design. Bombay: Lakhari Book Depot.
- Bonda, P. and Sonsnowchik, K. (2007).Sustainable Commercial Interiors. Jaipur: John Wiley and Book House Ltd.
- Chauhan, B.C. (2008). Environmental Studies. New Delhi: University Science Press.
- Cherunilam, F. and Hedggade, O. D. (1987). Housing in India. Bombay: Himalaya Publishing House.
- Crafti (2004). The office – Designing for Success. Jaipur: Images Publication.
- De, A.K. (2010. Environmental Chemistry. New Delhi: Willey Eastern ltd,.
- Deshpande, R. S. (1980). Modern Ideal Homes for India. Poona: United Book Corporation.
- Deshpande, R.S. (2000). Build Your Own Home. Pune: United book Corporation.
- Duffy ,F. (1997). The New Office. USA: Conran Octopus Publication.
- Faulkner, R. and Faulkner, S. (1975). Inside Today's Home, New York: Rinehart.
- Grandjean, E. (1979).Human Dimensions and Interior Space. New York: Whitney
- Grondzik, W.T., Kwok, A.G., Stein, B and Reynolds, J.S (2010).Mechanical and Electrical Equipment for Buildings (11th Ed).New York: Wiley, ISBN: 978-0-470-62106-6.
- Harmon. S. and Kennon, K. (2018). The Codes Guidebook for Interiors (5thEd.). New York: Wiley (ISBN: 978-1-119-34319-6).
- Karen, G. and Robert,Y. (1983). Corporate Design, London: Thomas and Hudson.
- Kasu, A.A.(2005). Interior Design. Mumbai: Ashish Book Center.
- Leger, E. (2003). Complete Building Construction. (4th Ed.). New Delhi: Wiley India.
- Leibing, W. R. (1999). Architectural Working Drawings (4th Ed).New York: John Wiley and sons.
- Leinbac (1986). Visualisation Techniques. New Jersey: McMillan (Prentice Hall).
- Leach, S. D.(1978). Techniques of Interior Design Rendering and Presentation (1st Ed.). Architectural record Books (ISBN-13: 978-0070368057).
- Margaret, G.B. and Beryl, S. G. (1980): Fabric Furnishing. London: E.T. Badsford Ltd.
- Mohanty, A.B. (1985). Guide to House Buildings. New Delhi:Inter India Publications.
- National Building Organization- Monograph of Housing Statistics.
- Park, K. (2003). Preventive and Social Medicine. Jabalpur: M/s Banarsi das Bhanot Publishers. • Piotrowski, C. and Rogers, E. (1999). Designing Commercial Interiors (2ndEd.). London: John Wiley.
- Robert, G.V. (1983). Rendering with pen + Ink. London: Thames, Hudson.
- Seetharaman, P. and Sethi, M. (2002). Interior Design and Decoration, New Delhi: CBS Publishers and Distributors.
- Singh, G. (1985). Bhavan NirmanSamagri. New Delhi: Standard Publishers Distributors, Delhi Sons Publication, University Press.

MJC-7 : Planning and Designing Interior Space (Practical)	
Practical: 2 credits	**Total -20 Hours**

Practical:

Market Study on:

1. Availability and popularity of eco-friendly materials
2. Submission of layout drawings for different rooms& and furniture using cut outs
3. Making accessories of functional and aesthetic value like pottery, paintings (different types), floor decorations, flower arrangement
4. Prang color system, color harmonies, color schemes for various rooms
5. Submission of a complete record

SEMESTER – IV

MIC-4: Communication and Extension

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Gain knowledge on the need and importance of communication and its significance in exchange of information
- **CO2:** Analyze the models of Communication and role of media in societal development
- **CO3:** Perceive the importance of extension education
- **CO4:** Acquire knowledge on the extension models and approaches

MIC-4: Communication and Extension (Theory: 2 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	• Meaning, definition, nature, scope and importance of communication • Functions of communication–information function, command constructive function, influencers, persuasive function and integrative function. • Elements of Communication – three elements – source, message, receiver, four elements – encoding, decoding, sender and receiver, five elements– communicator, communicate, message, channel and feedback	03
2	• Means of Communication –Oral, Written, Sign/signal, action, object • Types of Communication–Formal and Informal Communication • Pattern-one way, two-way, circular • Communication media– Printed electronic media • Advantages and Limitations of communication media	05
3	• Meaning, Scope, Objectives, Need of Extension Education • Philosophy and principles of extension education • Steps in extension teaching • Extension teaching methods • Audio Visual Aids	06
4	**Rural Sociology** • Meaning and definition of rural sociology • Scope of rural sociology • Characteristics of rural society • Elements of rural sociology • Importance of rural sociology for extension workers	03

5	**Rural Leadership** • Meaning and definition • Classification of leadership • Qualities of a leader • Role of a leadership • Identifying local leadership • Methods of leadership training	03
	TOTAL	20

Suggested Readings:

- Dahama,O.P and Bhatnagar O.P.(1995) ,Education and Communication for Development. New Delhi: Oxford and IBH Co.
- Gupta, D.(2007). Development Communication in Rural Sector. New Delhi: Mukhopadhyay Abhijeet Publication
- Nisha, M.(2006).Understanding Extension Education. New Delhi: Kalpay Publications
- Reddy, A.A.(2001).Extension Education. Bapatla: Sri Lakshmi Press
- Rogers Everett, M.(2003).Diffusion of Innovations,5th Ed. NewYork: The Free Press
- Singh, U.K and Nayak, A.K.(2007). Extension Education. New Delhi: Common Wealth Publishers
- Wilson, M.C., and Gallup,G.(1955). Extension Teaching Methods. Washington: US Department of Agriculture

MIC-4: Communication and Extension (Practical)	
Practical: 1 credits	**Total -10 Hours**
Practical : 1. Preparation of Audio-Visual Aids 2. Visit to a community 3. Interaction with people and understand the felt and unfelt need	

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SEMESTER V

S. No	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Child Psychology	MJC-8	5-1-0	5	100
2.	Family Finance & Consumer Behavior	MJC-9	5-1-0	5	100
3.	Child Psychology	MIC-5	3-1-0	3	100
4.	Family Finance & Consumer Behavior	MIC-6	3-1-0	3	100
5.	Internship	INT-1	-	4	100
Total Credit- 20					

SEMESTER – V

MJC-8: Child Psychology

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Explain the need and importance of studying children.

CO2: Explain the need, importance, causes, characteristics, assessment and intervention of various disabilities of studying children.

CO3: Distinguish the education patterns between normal and children with disabilities.

CO4: Describe the coping strategies adopted by parents and family while dealing with children with disabilities.

CO5: Design academic and extra- curricular activities for children with special need.

MJC-8: Child Psychology (Theory: 5 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Methods of Child Study** • Biographical Method • Case Study and Clinical Method • Observation Method • Longitudinal and cross-sectional method	10
2	**Behavioral Psychology** • Role of play in child development • Thinking and learning in children • Measurement of intelligence, factors affecting intellectual development	12
3	**Guidance and Counseling** • Meaning and importance • Educational and vocational guidance for the development of right personality	08
4	**Common Childhood Developmental Disorders and Disabilities** • Causes, characteristic, identification, assessment and intervention with reference to: loco motor disability, Visual disability, Auditory and speech disability, Learning disability, Juvenile Delinquency	12
5	**Programs and policies for families with differently abled children** • Role of parents in upbringing special children • Rights of the child with disability • Policy and laws related to children with disability	08
	TOTAL	50

Suggested Readings:

- Balsara, M. (2011). Inclusive education for special children. New Delhi: Kanishka Publishers.
- Berk, L. E. (2007). Development through the lifespan. Delhi: Pearson Education.
- Chopra, G. (2012). Early detection of disabilities and persons with disabilities in the community. New Delhi: Engage Publications.
- Chopra, G. (2012). Stimulating development of young children with disabilities at anganwadi and at home: A practical guide. New Delhi: Engage Publications.
- Dhawan, M. (2011). Education of children with special needs. New Delhi: Isha Books.
- Haring, N. G. (1974). Behavior of exceptional children: An introduction to special education. New Jersey: Prentice Hall Inc.
- Hegarty, S., & Alur, M. (Eds.). (2002). Education and children with special needs: From segregation to inclusion. New Delhi: Sage.
- Karna, G. N. (1999). United Nations and rights of disabled persons: A study in Indian perspective. New Delhi: A.P.H. Publishing Corporation.
- Kumar, S.G., Roy, G., & Kar, S.S. (2012). Disability and rehabilitation services in India: Issues and Challenges. Journal of Family Medicine and Primary Care, 1(1), 69– 73. doi: 10.4103/2249-4863.94458 10. Mani, R. (1988). Physically handicapped in India. Delhi: Ashish Publishing House.
- Mastropieri, M. A., & Scruggs, T. E. (2004). The inclusive classroom: Strategies for effective instruction. New York, NY: Pearson
- Mangal, S. K. (2007). Exceptional children: An introduction to special education. New Delhi: Prentice Hall of India
- Santrock, J. W. (2007). A topical approach to life-span development. New Delhi: Tata McGraw- Hill.
- Sharma, N. (2010). The social ecology of disability. Technical Series-3. New Delhi: Academic Excellence.
- Singh, A. (Ed). (2015). Foundations of human development: A life span approach. New Delhi: Orient Black Swan.

SEMESTER – V

MJC-9: Family Finance and Consumer Behavior

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Get acquainted with family finance and changing trends in consumerism
CO2: Enrich their knowledge on market systems
CO3: Emerge as informed and aware consumers

MJC-9: Family Finance and Consumer Behavior (Theory: 5 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Family Finance Management** • Meaning and definition • Process of budgeting- steps in drafting a family budget • Engel's Laws of consumption • Account keeping - balance sheets, account books, ledgers, income-expenditure records	10
2	**Family Security Arrangements** • Basic concept of savings and investment • Need, principles and channels of investment • Consumer credit- needs, sources, credit cards	06
3	**Role of Consumers in the Economy** • Definition of a consumer • Consumer behavior--Meaning, characteristics of buyer behavior, consumer buying process • Factors influencing consumer behavior • Change in consumer purchase practices in the modern market (concept of e-commerce, m-commerce, online shopping)	12
4	**Consumer Education** • Meaning, definition and need • Different methods of consumer education • Challenges of consumers in present scenario and its solutions	10

5	**Consumer Protection Laws and Organizations in India** • Consumer protection- Concept, need and significance • Consumer rights and responsibilities • Consumer aids: classification – Labels, Trademarks, Brand Names, Patents, Warranty, Guarantee • Standardization and quality control measures: ISI, FPO, AGMARK, ISO, Eco mark, Wool mark, Silk mark, Cotton mark, Handloom mark, BEE star labeling	12
	TOTAL	50

Suggested Readings:

- Khanna S.R., Hanspal S., Kapoor S. & Awasthi H.K., 2007, Consumer Affairs, Universities Press India Pvt. Ltd.
- Sawhney, H.K. &Mital, M., 2007, Family Finance & Consumer Studies, Elite Publishing House Pvt. Ltd.
- Seetharaman, P. and Sethi, M., 2001, Consumerism: Strength and Tactics, New Delhi: CBS Publishers.
- East, Robert (1990). Changing Consumer Behaviour. Cassel Educational Limited, Artillery House, Artilery Row, London
- Engel, J.F. and Black, Well R.D. (1990). Consumer Behaviour, 4th Edition. Holt Sanders International Edition.
- Gangawane, L. V., and Khilare V. C. (2007).Sustainable Environmental Management: Dr Jayshree Deshpande Festchrift Volume. Delhi: Daya (ISBN 13: 9788170354741)
- Gupta, C.B., and Nair, R.N. (2004). Marketing Management. New Delhi: Sultan Chand and Sons
- Kathiresan, S., and Radha, V. (2004). Marketing. Chennai: Prasanna Publishers
- Nair R., and Nair S, R. (2003).Marketing. New Delhi: Sultan Chand and Sons
- Nair, S (2002). Consumer Behaviour. New Delhi: Sultan Chand and Sons
- Pattanchetti, C.C., and Reddy (2002). Principles of Marketing. Coimbatore: Rainbow Publishers
- Verma, B.P. (2003).Civil Engineering Drawing, Drawing and House Planning. New Delhi: Khanna Publishers

SEMESTER – V

MIC-5: Child Psychology

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Explain the need and importance of studying children.

CO2: Explain the need, importance, causes, characteristics, assessment and intervention of various disabilities of studying children.

CO3: Distinguish the education patterns between normal and children with disabilities.

CO4: Describe the coping strategies adopted by parents and family while dealing with children with disabilities.

CO5: Design academic and extra- curricular activities for children with special need.

MIC-5: Child Psychology (Theory: 3 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Methods of Child Study** • Case Study and Clinical Method • Observation Method • Longitudinal and cross-sectional method	06
2	**Behavioral Psychology** • Role of play in child development • Thinking and learning in children • Measurement of intelligence, factors affecting intellectual development	06
3	**Guidance and Counseling** • Meaning and importance • Educational and vocational guidance for the development of right personality	06
4	**Programs and policies for families with differently abled children** • Role of parents in upbringing special children Rights of the child with disability	08
5	**Policy and laws** • Related to children with disability	04
	TOTAL	30

Suggested Readings:

- Balsara, M. (2011). Inclusive education for special children. New Delhi: Kanishka Publishers.
- Berk, L. E. (2007). Development through the lifespan. Delhi: Pearson Education.
- Chopra, G. (2012). Early detection of disabilities and persons with disabilities in the community. New Delhi: Engage Publications.
- Chopra, G. (2012). Stimulating development of young children with disabilities at anganwadi and at home: A practical guide. New Delhi: Engage Publications.
- Dhawan, M. (2011). Education of children with special needs. New Delhi: Isha Books.
- Haring, N. G. (1974). Behavior of exceptional children: An introduction to special education. New Jersey: Prentice Hall Inc.
- Hegarty, S., & Alur, M. (Eds.). (2002). Education and children with special needs: From segregation to inclusion. New Delhi: Sage.
- Karna, G. N. (1999). United Nations and rights of disabled persons: A study in Indian perspective. New Delhi: A.P.H. Publishing Corporation.
- Kumar, S.G., Roy, G., & Kar, S.S. (2012). Disability and rehabilitation services in India: Issues and Challenges. Journal of Family Medicine and Primary Care, 1(1), 69– 73. doi: 10.4103/2249-4863.94458 10. Mani, R. (1988). Physically handicapped in India. Delhi: Ashish Publishing House.
- Mastropieri, M. A., & Scruggs, T. E. (2004). The inclusive classroom: Strategies for effective instruction. New York, NY: Pearson
- Mangal, S. K. (2007). Exceptional children: An introduction to special education. New Delhi: Prentice Hall of India
- Santrock, J. W. (2007). A topical approach to life-span development. New Delhi: Tata McGraw- Hill.
- Sharma, N. (2010). The social ecology of disability. Technical Series-3. New Delhi: Academic Excellence.
- Singh, A. (Ed). (2015). Foundations of human development: A life span approach. New Delhi: Orient Black Swan.

SEMESTER – V

MIC-6: Family Finance and Consumer Behavior

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Get acquainted with family finance and changing trends in consumerism
- **CO2:** Enrich their knowledge on market systems
- **CO3:** Emerge as informed and aware consumers

MIC-6: Family Finance and Consumer Behavior (Theory: 3 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Family Finance Management** • Meaning and definition • Process of budgeting- steps in drafting a family budget • Account keeping - balance sheets, account books, ledgers, income-expenditure records	08
2	**Family Security Arrangements** • Basic concept of savings and investment • Need, principles and channels of investment • Consumer credit- needs, sources, credit cards	06
3	**Role of Consumers in the Economy** • Definition of a consumer • Factors influencing consumer behavior • Change in consumer purchase practices in the modern market (concept of e-commerce, m-commerce, online shopping)	06
4	**Consumer protection** • Concept, need and significance • Consumer rights and responsibilities • Consumer aids: classification – Labels, Trademarks, Brand Names, Patents, Warranty, Guarantee	06
5	**Standardization and quality control measures** • ISI, FPO, AGMARK, ISO, Eco mark, Wool mark, Silk mark, Cotton mark, Handloom mark	04
	TOTAL	30

Suggested Readings:

- Khanna S.R., Hanspal S., Kapoor S. & Awasthi H.K., 2007, Consumer Affairs, Universities Press India Pvt. Ltd.
- Sawhney, H.K. &Mital, M., 2007, Family Finance & Consumer Studies, Elite Publishing House Pvt. Ltd.
- Seetharaman, P. and Sethi, M., 2001, Consumerism: Strength and Tactics, New Delhi: CBS Publishers.
- East, Robert (1990). Changing Consumer Behaviour. Cassel Educational Limited, Artillery House, Artilery Row, London
- Engel, J.F. and Black, Well R.D. (1990). Consumer Behaviour, 4th Edition. Holt Sanders International Edition.
- Gangawane, L. V., and Khilare V. C. (2007).Sustainable Environmental Management: Dr Jayshree Deshpande Festchrift Volume. Delhi: Daya (ISBN 13: 9788170354741)
- Gupta, C.B., and Nair, R.N. (2004). Marketing Management. New Delhi: Sultan Chand and Sons
- Kathiresan, S., and Radha, V. (2004). Marketing. Chennai: Prasanna Publishers
- Nair R., and Nair S, R. (2003).Marketing. New Delhi: Sultan Chand and Sons
- Nair, S (2002). Consumer Behaviour. New Delhi: Sultan Chand and Sons
- Pattanchetti, C.C., and Reddy (2002). Principles of Marketing. Coimbatore: Rainbow Publishers
- Verma, B.P. (2003).Civil Engineering Drawing, Drawing and House Planning. New Delhi: Khanna Publishers



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SEMESTER VI

S. No	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Non-Formal, Adult and Lifelong Education	MJC-10	4-1-0	4	100
2.	Child Rights and Social action	MJC-11	5-1-0	5	100
3.	Dietetics (Th)	MJC-12	3-1-0	3	100
4.	Dietetics (P)	MJC-12	0-0-4	2	100
5.	Dietetics (Th)	MIC-7	2-1-0	2	100
6.	Dietetics (P)	MIC-7	0-0-4	1	100
7.	Food Safety, Sanitation and Hygiene	MIC-8	3-1-0	3	100
Total Credit- 20					

SEMESTER – VI

MJC-10: Non-formal, Adult and Life-long Education

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Develop an understanding of concept of non-formal, adult and lifelong education
- **CO2:** Acquire understanding on the selection of the methods and material for non-formal, adult and lifelong education
- **CO3:** Analyze and assess programs of non-formal, adult and lifelong education

MJC-10: Non-formal, Adult and Life-long Education (Theory: 4 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Non-Formal Education (NFE)** • Difference between formal & Non-Formal Education • Significance and scope of Non-Formal Education in India • New education policy & NFE	08
2	**Adult Education** • Definition, meaning, and scope of adult education • Adult Education program in India • Adult Education and Extension • Characteristics of adult learners; Difference between adult & child learning • Factors associated with adult learning. Motivating and sustaining adult learners	10
3	**Life Long Education** • Definition, meaning and concept of life-long education • Forms and domains, objectives and significance of life-long education • Principles of life-long education	06
4	**Methods and Material for Non-Formal/Adult/Life Long Education** • Methods and approaches for organizing NFE program • Scope of communication methods and materials for NFE objectives	06
5	**Program of Non-Formal/Adult/Life Long and Continuing Education** • Local, State, national and international agencies- policy and program • Monitoring and evaluation of NFE /Adult/ life-long and continuing education program	10
	TOTAL	40

Suggested Readings:

- Mishra. L., Adult Education, A study of the trials, APH Publishing Corporation, New Delhi.
- Chandra A., Shah A.1987, Non- Formal Education for All, Sterling Publishers, New Delhi.
- Singh M., 2007, New Companion to Adult Educators, International Institute of II Adult Education
- Meaning, concept and scope of Adult Education
- Adult Education program in India
- Adult Education and Extension
- Characteristics of Adult Learners; Difference between Adult & Child learning
- Learning theories; Characteristics of Adult learning, developmental tasks of adults
- Factors associated with adult learning. Motivating and sustaining adult learners 12 III Life Long Education
- Definition, meaning and concept of Life Long Education
- Life Long Education: Historical and contemporary perspectives
- Components and objectives of Life Long Education
- Significance of Life Long Education in contemporary society
- Forms and domains of Life Long Education
- Principles of Life Long Education 12 IV Methods and Material for Non-Formal/Adult/Life Long Education
- Methods and approaches for organizing NFE program for different target groups
- Scope of communication methods and materials for NFE objectives 10 V Program of Non-Formal/Adult/Life Long and Continuing Education
- National and international program
- Local, State, National and international agencies- policy and program
- Monitoring and evaluation of NFE /Adult/ Life Long and Continuing Education program 14 TOTAL 60 Adult and Life Long Education, New Delhi.
- Singh N.K, 2010, Adult Education, Saurabh Publishing House, New Delhi.
- Khajuria D.P., New Trends in Indian Education, Narendra Publishing House, Jalandhar.

SEMESTER – VI

MJC-11: Child Rights and Social Action

After completion of the course the students will be able to CO1:

Understand child rights and various vulnerable groups

CO3: Develop an understanding related to child rights laws for children

CO4: Get acquainted with the policies and programs safeguarding child rightsCO5:

Become aware regarding types of violence against children

MJC-11: Child Rights and Social Action (Theory: 5 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Child Rights** • Definitions of child and child rights • Key philosophical concepts in the discourse on childrights • Role of family, community and child herself inprotecting rights	10
2	**Vulnerable Groups: Causes and Consequences** • Street and working, destitute, homeless, institutionalized children; Living with: chronic illness, HIV/AIDS, disabilities; Affected by war, conflict, riots, disasters; Victims of child-trafficking, abuse, dysfunctional families Children in conflict with law	12
3	**Framework for Social Action** • Role of state in protection of child rights; • Laws for children- Indian and International;Constitutional provisions in India.	10
4	**National policies and programs, Institutional and Non-institutional services**	08
5	**Case study on different types of violence against children inthe state/country**	10
	TOTAL	50

Suggested Readings:

Bajpai, A. (2006). Child rights in India: Law, policy and practice. New Delhi: Oxford University Press

Bhargava, V. (2005). Adoption in India: Policies and experiences. New Delhi: Sage. Virani, (2000). Bitter chocolate: Child Sexual abuse in India. New Delhi: Penguin Weiner, M., Burra, N.,

Bajpai, A. (2007). Born un free: Child labour, Education, and the state in India. New Delhi: Oxford University Press.

MJC-12: Dietetics
Course Outcomes

After the completion of the course, the student will be able to:

CO1: Know the physiological and metabolic conditions of different age groups
CO2: Describe the nutritional requirements of different age groups
CO3: Gain skills in meal planning during different phases of life

MJC-12: Dietetics (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Concepts of Diet Therapy** • Diet Therapy: Meaning and Importance	02
2	**Types of Diet** • Modification of diet • Mode of Feeding- Oral, Tube and Peripheral Vein Feeding • Nutritional Assessment: Direct and Indirect Method	03
3	**Under weight and Over weight** • Symptoms, Etiology, Types, Health Hazards, Treatment and Dietary Management **Endocrine Disorders (Diabetes, PCOD, Hypothyroidism)** • Symptoms, Etiology, Types, Health Hazards, Treatment and Dietary Management	12
4	**Constipation and Diarrhea** • Symptoms, Etiology, Types, Health Hazards • Treatment and Dietary Management	05
5	**Fever (Typhoid, Malaria, Tuberculosis)** • Symptoms, Etiology, Types, Health Hazards, Treatment and Dietary Management	08
	TOTAL	30

Suggested Readings:

- Antia, F.P. (2005): Clinical Nutrition and Dietetics, Oxford University Press, Delhi
- Mahan, L.K., Arlin, M.T. (2000): Krause's Food, Nutrition and Diet therapy, 11th edition, W.B. Saunders Company, London.
- Robinson,C.H;Lawler,M.R.Chenoweth,W.L;andGarwick,A.E(1986):Normal and
- Shubhangini A Joshi (2002): Nutrition and Dietetics2nd edition, Tata Mc Graw-Hill Publishing Company Limited, New Delhi.
- Srilakshmi, B.(2005):Dietetics,5th edition, New Age International(P) Limited Publishers, New Delhi Therapeutic Nutrition,17th Ed., Mac Millan Publishing Co
- Williams's (1989): Nutrition and diet Therapy.6th edition. Times Mirror/Mosby College Publishing, St. Louis

MJC-12: Dietetics (Practical)	
Practical: 2 credits	**Total- 20 Hours**

Practical :

1. Diet planning and calculation of important nutrients for various age groups: Pre-school, School going adolescents, pregnancy, lactation and old age.
2. Planning and preparing diets for diarrhea, constipation febrile conditions -Typhoid, malaria and tuberculosis, overweight, underweight, Diabetes, PCOD and Hypothyroidism.

SEMESTER VI
MIC-7: Dietetics
Course Outcomes

After the completion of the course, the student will be able to:

CO1: Know the physiological and metabolic conditions of different age groups
CO2: Describe the nutritional requirements of different age groups
CO3: Gain skills in meal planning during different phases of life

MIC-7: Dietetics (Theory: 2 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Concepts of Diet Therapy** • Diet Therapy: Meaning and Importance	02
2	**Types of Diet** • Modification of diet • Mode of Feeding- Oral, Tube and Peripheral Vein Feeding	02
3	**Under weight and Over weight** • Symptoms, Etiology, Types, Health Hazards, Treatment and Dietary Management **Diabetes Mellitus** • Symptoms, Etiology, Types, Health Hazards, Treatment and Dietary Management	05
4	**Constipation and Diarrhea** • Symptoms, Etiology, Types, Health Hazards • Treatment and Dietary Management	05
5	**Fever (Typhoid, Malaria, Tuberculosis)** • Symptoms, Etiology, Types, Health Hazards, Treatment and Dietary Management	06
	TOTAL	20

Suggested Readings:

- Antia, F.P. (2005): Clinical Nutrition and Dietetics, Oxford University Press, Delhi
- Mahan, L.K., Arlin, M.T. (2000): Krause's Food, Nutrition and Diet therapy, 11th edition, W.B. Saunders Company, London.
- Robinson,C.H;Lawler,M.R.Chenoweth,W.L;andGarwick,A.E(1986):Normal and
- Shubhangini A Joshi (2002): Nutrition and Dietetics2nd edition, Tata Mc Graw-Hill Publishing Company Limited, New Delhi.
- Srilakshmi, B.(2005):Dietetics,5th edition, New Age International(P) Limited Publishers, New Delhi Therapeutic Nutrition,17th Ed., Mac Millan Publishing Co
- Williams's (1989): Nutrition and diet Therapy.6th edition. Times Mirror/Mosby College Publishing, St. Louis

MIC-7: Dietetics (Practical)	
Practical: 1 credits	**Total- 10 Hours**
Practical:	
1 Diet planning and calculation of important nutrients for various age groups: Pre-school, School going adolescents, pregnancy, lactation and old age.	
2 Planning and preparing diets for diarrhea, constipation febrile conditions -Typhoid, malaria and tuberculosis, over and underweight.	

SEMESTER VI

MIC-8: Food Safety, Sanitation and Hygiene

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Explain various types of food contamination and factors that contribute to foodborne illness

CO2: Identify the characteristics of potentially hazardous foods and describe the dangers of foodborne illness

CO3: Demonstrate the ability to explore and apply proper food handling techniques and correct procedures for receiving, preparing, serving and storing food products

CO4: Demonstrate proper personal hygiene procedures with regard to food handling

MIC-8: Food Safety, Sanitation and Hygiene (Theory: 3 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Food Safety** • Concept and meaning of Food Safety, food adulteration, food hazards Food laws and regulations – National (FSSAI) and international (FAO) food laws, Governing bodies Exposure, estimation, toxicological requirements and risk analysis Safety aspects of water and beverages Safety assessment of food contaminants and pesticide residues	04
2	**Food Safety: Principles of prevention** • Reduce microbial contamination and control growth Eliminate source of contaminants Sanitation: principle and purposes	08
3	**Food Protection** • Food Protection Methods • Foodborne Illness Risk Factors.	06
4	**Food Hygiene** • Food hygiene law and the importance of food safety. • Food Safety Hazards. Temperature control, food deliveries, refrigeration, low and high-risk foods, use by dates and best before dates, and stock rotation (FIFO). • Cross-Contamination Hand hygiene, further hygiene considerations, protective clothing, reporting illness and first aid.	06
5	**Importance of Personal hygiene of food handlers** • General principles of hygiene – personal and environmental hygiene, hygienic practices in handling and serving foods. • Planning and implementation of training programme for health person.	06
	TOTAL	30

Suggested Readings:

- Food Safety-Theory and Practice: Paul L. Knechtges, Jones & BartlettLearning,2012
- Food Hygiene and Sanitation With case studies, Sunetra Roday, 2nd Edition, Tata McGraw Hill Education PvtLtd.,2011
- Kirk, R.S and Sawyer, R.: Pearson's composition and analysis of foods, Longman Scientific and technical. 9th Edition, England.1991
- Bryan,F.L: Hazardous Analysis Critical Control Point Evaluation. A guide to identifying Hazards and assessing risks associated with food preparation and storage. WHO, Geneva.1992
- Bureau of Indian Standards: Specifications and Standard methods.

Bachelor of Arts (Honours)
(Under CBCS)
Home Science

SEMESTER VII

S. No	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Clothing Construction (Th)	MJC-13	3-1-0	3	100
2.	Clothing Construction(P)	MJC-13	0-0-4	2	100
3.	Research Methodology	MJC-14	5-1-0	5	100
4.	Early Childhood Care and Education (Th)	MJC-15	4-1-0	4	100
5.	Early Childhood Care and Education (P)	MJC-15	0-0-4	2	100
6.	Clothing Construction (Th)	MIC-9	3-1-0	3	100
7.	Clothing Construction(P)	MIC-9	0-0-2	1	100
					Total Credit- 20

SEMESTER – VII

MJC-13: Clothing Construction

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand basic principles and importance of clothing construction.

CO2: Identify the common fabrics used for clothing construction

CO3: Gain and insight of various sewing machines and other sewing equipments available in the market, their functioning and common problems faced while usage.

CO4: Understands various garment construction process.

MJC-13 : Clothing Construction (Theory: 3 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Clothing** • Functions and importance of clothing	03
2	**Sewing Machines** • Parts, function, types and maintenances • Common problems and its remedies. **Tools and equipment used for clothing construction** • Measuring, drafting, marketing and stitching tool • Needles, threads and their relations to fabric • Selection of right thread, needle for the fabric to be sewn	10
3	**Introduction to Clothing Construction** • Introduction and importance • Anthropometric measurements • Factors affecting selection of fabrics- Social, economic, physiological and environmental factors	07
4	**Design Components** • Basic elements and principles of design • Relation between elements and principles of design to the Clothing and fashion **Color, line and texture in relation to :** • Age • Season • Occasion • Figure and • Complexion	06

5	**Components of Garments** • Introduction to basic garments • Selection of garments **Detailing in garments** • Necklines • Fullness • Pockets, Sleeves	04
	TOTAL	30

Suggested Readings:

- Armstrong, Pearson. (1995), Pattern making for Fashion Design, Fairchild Publication, New York 1995 (Indian Ed.)
- Cream, Penelope. (1996), The Complete Book of Sewing - A Practical Step by Step Guideto Sewing Techniques, DK Publishing Book, New York,
- Dorothy wood, the practical encyclopedia of sewing, Anneess publishing Ltd, London.
- Holman, Gillian. (1997), Pattern Cutting Made Easy, BSP.
- Janace E. Bubonia. (2012), Apparel production terms and processes, Fairchild Books,New York.
- Kallal, Mary Jo, (1985), Clothing Construction, Mc Millan Publishing Company,New York.
- Norma Hollen, Jane Saddler, Anna L. Langford & Sara, J.,(1988) Textiles 6th ed.,Macmillan Publication, New York
- Readers, Digest, Complete Guide to Sewing, The Reader's Digest Associations (Canada)Ltd. Montreal, Pleasantville, New York.
- Thomas, A, (1986), the Art of Sewing UBSPD Publishers Distributors Ltd. New Delhi.

MJC-13: Clothing Construction

Practical: 2 credits **Total- 20 Hours**

Practical:

1. Tools and Equipment used in Garment Construction:
2. Squares and Scales, French curves – for armhole and necklines
3. Preparing sample of:
   i. Seams- Plain seams, hemming and decorative seams
4. Fullness
   i. Darts-Single point, Fish dart
   ii. Tucks
   iii. Pleats
   iv. Gathers
   v. Shirring
   vi. Ruffles and Frills
5. Fasteners

SEMESTER – VII

MJC-14: Research Methodology

SEMESTER – VII

MJC-15: Early Childhood Care and Education

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Explain the importance of early childhood years and significance of intervention programs for early childhood development.

CO2: Identify various indigenous (Indian) models of early childhood education and apply it to understand the current developmental trends in early childhood.

CO3: Analyze curriculum models and pedagogical approaches in early childhood education.

CO4: To create awareness regarding developmental programmes.

MJC -15: Early Childhood Care and Education (Theory: 4 credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Early Childhood Care and Education** (ECCE) • Aims, objectives, meaning, scope and significance of ECCE • Deference between day care and ECCE • Types of ECCE service delivery – Formal and informal, government funded and franchise oriented	10
2	**ECCE in India** • History of Early Childhood Care and Education in India. • Overview of ECCE in pre- and post-independence period. Preschool education in the pre- and post-independence era (very brief). • Contributions of educational philosophers: global and Indian perspective- Views of educationists and philosophers: Rousseau, Pestalozzi, Froebel, McMillan Sisters, John Dewey and Montessori, Sri Aurobindo, Tagore, Mahatma Gandhi	10
3	**National Policy on Education (1986)** • Programmes/schemes and innovations in ECCE – ICDS, Balwadis, Mobile crèches	05
4	**National Curriculum Framework 2005** • National Policy on Early Childhood Care and Education 2013 • Curriculum Framework for Early Childhood Care and Education 2012/2013	05
5	**New Education Policy, 2020** • Basic Infrastructure • Entrance process • Record, register, ECCE calendar • Administration, training, capacity building • Health, hygiene and nutrition	10
	TOTAL	40

Suggested Readings:

1. Agarwal, J. C. (2007). Early childhood care and education: principles and practices. New Delhi: Shipra
2. Agarwal, S.P. and Usmani, M. (2000).Children'seducation in India: from vedic a, times to twenty first century New Delhi: Shipra.
3. Canning, N. (2010) Play and practice in the early years: Foundation stage. New Delhi: Sage.
4. Durlak, J.A. (1995). School based prevention programmesforchildren and adolescents. N.Y.: LOCF: HOME SCIENCE 54 Sage.
5. Fleer, M. (2010). Early learning and development: Cultural–historical concepts in play. Cambridge: Cambridge University Press.
6. Kaul, V. (2009). Early childhood education programme. National Council of Educational Research and Training, New Delhi.
7. OECD. (2004). Curricula and pedagogies in early childhood education and care. Retrieved from http://www.oecd.org/education/school/31672150.pdf
8. Purkait, B.R. (2005). Milestones in modern Indian education. Kolkata: New Central Book Agency.
9. Swaminathan, M.(ed.) (1998).Thefirstfive years: A critical perspectives on a. early childhood care and education in India. New Delhi: Sage.
10. Sarangapani, P.M. (2009). Quality, feasibility and desirability of low cost private schooling: what is the evidence? Economic & Political Weekly, 44(43), 67–69.
11. Sarangapani, P.M. (2010). Comparative education in India: Why it is missing and why we need it. Journal of Education Planning and Administration 24(4): 363-378.
12. Saraswathi, T.H., Menon, S. & Madan, A. (eds.) (2018) Childhoods in India traditions, trends and transformations. New Delhi. Routledge.
13. Sharma, K.K., & Miglani, P. (2016). Gender, school and society. Patiala: Twenty First Century Publications.
14. Early Childhood Care and Education (n.d.) Retrieved from http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/home_science/10._early_childhoodcare,_education_and_development/14._aurobindo,_gijubhai_badheka,_tarabai_modak/et/6716_et_et.pdf
15. Singh, A. (1995). Playing to learn: A training manual for early childhood education. Chennai: M. S. Swaminathan Research Foundation.
16. Venkataraman, B. (2009). Education for sustainable development. Environment: Science and Policy for Sustainable Development, 51(2), 8-10.

MJC -15: Early Childhood Care and Education	
Practical: 2 credits	**Total- 20 Hours**
Practical: 1. Observation of early childhood programs at government and nongovernmental institution 2. List the activities for each domain to promote all round development in young children. 3. Plan and record activities and methods of playful interactions to foster development in children (birth –two years and two –six years) 4. Prepare low-cost play materials/equipment's.	

SEMESTER – VII

MIC-9: Clothing Construction

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand basic principles and importance of clothing construction.
- **CO2:** Identify the common fabrics used for clothing construction
- **CO3:** Gain and insight of various sewing machines and other sewing equipments available in the market, their functioning and common problems faced while usage.
- **CO4:** Understands various garment construction process.

MIC-9: Clothing Construction (Theory: 3 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Clothing** • Functions and importance of clothing	03
2	**Sewing Machines** • Parts, function, types and maintenances • Common problems and its remedies.	05
3	**Tools and equipment used for clothing construction** • Measuring, drafting, marketing and stitching tool • Needles, threads and their relations to fabric • Selection of right thread, needle for the fabric to be sewn	05
4	**Introduction to Clothing Construction** • Introduction and importance • Anthropometric measurements • Factors affecting selection of fabrics- Social, economic, physiological and environmental factors	07
5	**Design Components** • Basic elements and principles of design • Relation between elements and principles of design to the Clothing and fashion **Color, line and texture in relation to :** • Age • Season • Occasion • Figure and • Complexion	10
	TOTAL	30

Suggested Readings:

- Armstrong, Pearson. (1995), Pattern making for Fashion Design, Fairchild Publication, New York 1995 (Indian Ed.)
- Cream, Penelope. (1996), The Complete Book of Sewing - A Practical Step by Step Guideto Sewing Techniques, DK Publishing Book, New York,
- Dorothy wood, the practical encyclopedia of sewing, Anness publishing Ltd, London.
- Holman, Gillian. (1997), Pattern Cutting Made Easy, BSP.
- Janace E. Bubonia. (2012), Apparel production terms and processes, Fairchild Books,New York.
- Kallal, Mary Jo, (1985), Clothing Construction, Mc Millan Publishing Company,New York.
- Norma Hollen, Jane Saddler, Anna L. Langford & Sara, J.,(1988) Textiles 6th ed.,Macmillan Publication, New York
- Readers, Digest, Complete Guide to Sewing, The Reader's Digest Associations (Canada)Ltd. Montreal, Pleasantville, New York.
- Thomas, A, (1986), the Art of Sewing UBSPD Publishers Distributors Ltd. New Delhi.

MIC-9: Clothing Construction	
Practical: 1 credit	**Total- 10 Hours**
Practical: 1. Tools and Equipment used in Garment Construction: 2. Squares and Scales, French curves – for armhole and necklines 3. Preparing sample of Seams- Plain seams, hemming and decorative seams	

Semester VIII

S. No	Name of Course	Type of Course	L-T-P	Credits	Marks
1.	Public Health Nutrition	MJC-16	4-1-0	4	100
2.	Public Health Nutrition	MIC-10	4-1-0	4	100
3.	Research Project/ Dissertation	RP-1	-	12	
				Total Credit- 20	

SEMESTER – VIII

MJC-16: Public Health Nutrition

Course Outcomes

After the completion of the course, the student will be able to:

CO1: To maintain physiological well-being and overall health.

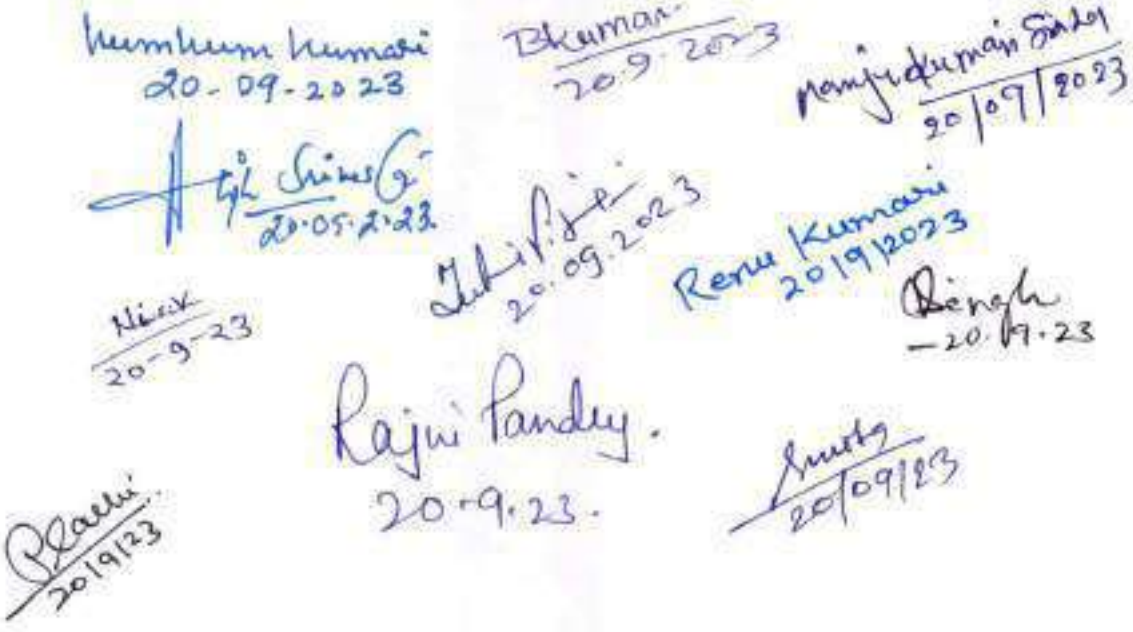
CO2: Identify some of the social and cultural influences on food habits and activity patterns.

CO3: Get acquainted with current nutritional information with regard to its contribution to health.

MJC 16 : Public Health Nutrition (Theory: 4 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Concept of Public Health** • Introduction to public health- Meaning, definition, importance and concept of demography • Determinants of health	06
2	**Public Health Nutrition** • Importance of Nutrition for Health • Under Nutrition and Over Nutrition- Meaning, prevalence, risk factors • Common nutritional disorders- PEM, Rickets, Anemia, Iodine deficiency, Osteoporosis, Obesity, Diabetes and Hypertension	12
3	**Disparities in Health** • Meaning and concept • Factors of Inequalities and Disparities in Health: Poverty, discrimination, vulnerability, income inequality, Socio economic position, education, occupation, ethnicity and its impact on health outcome	07
4	**Understanding Health Policy and Systems** • Public health system in India • Evolution of global public health initiatives- MDGs, SDGS • Challenges in Public health delivery system	05
5	**National, international and voluntary organizations to combat malnutrition** • Strategies for improving nutrition and health status of the community • National organization – ICAR, ICMR, NIN, NIPCCD • International Organizations - World Health Organization (WHO), United Nations International Children's Emergency Fund (UNICEF), World Food Programme (WFP) • Voluntary organizations – CARE, World Alliance for Breastfeeding Action (WABA)	10
	TOTAL	40

Suggested Readings:

- Wadhwa, A. and Sharma, S., (2003). Nutrition in the Community - A Textbook. Elite Publishing House Pvt. Ltd., New Delhi.
- Park, K., (2011). Textbook of Preventive and Social Medicine, 21st Edition. M/s Banarasi das Bhanot Publishers, Jabalpur, India.
- Bamji, M.S., Krishna swamy K. and Brahmam, GNV. (2009). Textbook of Human Nutrition, 3rd edition. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
- Gibney M.J., (2005). Public Health Nutrition.
- Vir, S. (2011). Public Health Nutrition in Developing Countries, Vol 1 and 2
- ICMR (1989). Nutritive Value of Indian Foods. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- ICMR (2011). Dietary Guidelines for Indians – A Manual. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- Wardlaw, Smith. Contemporary Nutrition: A Functional Approach. 2nd ed: 2012.Mc Graw Hill. Williams Melvin. Nutrition for health, fitness and sports. 2004.Mc Graw Hill
- Joshi AS. Nutrition and Dietetics 2010. Tata Mc Graw Hill.



SEMESTER – VIII

MIC-10: Public Health Nutrition

Course Outcomes

After the completion of the course, the student will be able to:

CO1: To maintain physiological well-being and overall health.

CO2: Identify some of the social and cultural influences on food habits and activity patterns.

CO3: Get acquainted with current nutritional information with regard to its contribution to health.

MIC-10: Public Health Nutrition (Theory: 4 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Concept of Public Health** • Introduction to public health- Meaning, definition, importance and concept of demography • Determinants of health	06
2	**Public Health Nutrition** • Importance of Nutrition for Health • Under Nutrition and Over Nutrition- Meaning, prevalence, risk factors • Common nutritional disorders- PEM, Rickets, Anemia, Iodine deficiency and Osteoporosis	16
3	**Disparities in Health** • Meaning and concept • Factors of Inequalities and Disparities in Health: Poverty, discrimination, vulnerability, income inequality, Socio economic position, education, occupation, ethnicity and its impact on health outcome	06
4	**National and international organizations to combat malnutrition** • Strategies for improving nutrition and health status of the community • National organization – ICAR, ICMR, NIN, NIPCCD • International Organizations - World Health Organization (WHO), United Nations International Children's Emergency Fund (UNICEF), World Food Programme (WFP)	08
5	**Voluntary organizations to combat malnutrition** • Voluntary organizations – CARE, World Alliance for Breastfeeding Action (WABA)	04
	TOTAL	40

Suggested Readings:

- Wadhwa, A. and Sharma, S., (2003). Nutrition in the Community - A Textbook. Elite Publishing House Pvt. Ltd., New Delhi.
- Park, K., (2011). Textbook of Preventive and Social Medicine, 21st Edition. M/s Banarasi das Bhanot Publishers, Jabalpur, India.
- Bamji, M.S., Krishna swamy K. and Brahmam, GNV. (2009). Textbook of Human Nutrition, 3rd edition. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
- Gibney M.J., (2005). Public Health Nutrition.
- Vir, S. (2011). Public Health Nutrition in Developing Countries, Vol 1 and 2
- ICMR (1989). Nutritive Value of Indian Foods. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- ICMR (2011). Dietary Guidelines for Indians – A Manual. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- Wardlaw, Smith. Contemporary Nutrition: A Functional Approach. 2nd ed: 2012.Mc Graw Hill. Williams Melvin. Nutrition for health, fitness and sports. 2004.Mc Graw Hill
- Joshi AS. Nutrition and Dietetics 2010. Tata Mc Graw Hill.

To,

The Principal Secretary to Governor
Raj Bhavan, Patna

Subject:- Regarding submission of proposed course structure and uniform syllabus of Public Administration, Semester III to Semester VIII of 4 year under graduate.

Ref:- BSU (UGC)-02/2023-1457/GS(I), Dated 14.09.2023.

Sir,

With compliance to your letter no. BSU (UGC)- 02/2023-1457/GS(I), Dated 14.09.2023 followed by above mentioned letter no., we are submitting the syllabus of Public Administration (Major and Minor Courses) from III to VIII semester of 4-year under graduate course system as per UGC regulations.

Yours faithfully

Prof. Umesh Kumar
Professor, P.G. Department of Public Administration
V.K.S. University, Ara

Prof. Shefali Ray
Director,
Institute of Public Administration,
Patna University, Patna

Dr. Aditi Tyagi
Assistant Professor
Institute of Public Administration
PU, Patna

Dr. Bipin Kumar Rai
Associate Professor
P.G: Department of Political Science
BRABU, Muzaffarpur

Dr. Anjani Kumar Ghosh
P.G. Department of Political Science
Magadh University, BodhGaya

Dr. Priyanka Singh
P.G. Department of Political Science
Magadh University, BodhGaya

Dr. Divya Mishra
P.G. Department of Political Science
Magadh University, BodhGaya

(Proposed Course Structure to be introduced at under graduate level in Universities of Bihar)

Public Administration

(A) Major Core Courses

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MJC-1	Principles of Public Administration	6	100
2.	II	MJC-2	Administrative Thought	6	100
3.	III	MJC-3	Indian Administration	5	100
4.	III	MJC-4	Personnel Administration	4	100
5.	IV	MJC-5	Comparative Administration	5	100
6.	IV	MJC-6	Administrative Law	5	100
7.	IV	MJC-7	Financial Administration	5	100
8.	V	MJC-8	Social Welfare Administration	5	100
9.	V	MJC-9	Development Administration	5	100
10.	VI	MJC-10	Local Self Government	4	100
11.	VI	MJC-11	Principles of Organization	5	100
12.	VI	MJC-12	Public Policy	5	100
13.	VII	MJC-13	Good Governance	5	100
14.	VII	MJC-14	Research Methodology	5	100
15.	VII	MJC-15	Emerging Trends in Public Administration	6	100
16.	VIII	MJC-16	Administration of Public Enterprises	4	100

Sub Total = 80

(A) Minor Courses to be offered by the Department for students of other Departments of Social Science

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MIC-1	Introduction to Public Administration	3	100
2.	II	MIC-2	Union Administration	3	100
3.	III	MIC-3	State Administration	3	100
4.	IV	MIC-4	Local Self Government	3	100
5.	V	MIC-5	Social Welfare Administration	3	100
6.	V	MIC-6	Development Administration	3	100
7.	VI	MIC-7	Personnel Administration	3	100
8.	VI	MIC-8	Administrative Law	3	100
9.	VII	MIC-9	Financial Administration	4	100
10.	VIII	MIC-10	Emerging Trends in Public Administration	4	100

Sub Total = 32

Note: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department concerned may also decide practical courses.

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(C) Multidisciplinary Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	To be selected from the basket	3	100
2.	II	MDC-2	To be selected from the basket	3	100
3.	III	MDC-3	To be selected from the basket	3	100

Sub Total = 09

(D) Ability Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	AEC-1	MIL	2	100
2.	II	AEC-2	Environmental Science	2	100
3.	III	AEC-3	Disaster Risk Management	2	100
4.	IV	AEC-4	NCC/NSS/NGOs/Social Service/ Scout and Guide/Sports	2	100

Sub Total = 08

(E) Skill Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	SEC-1	To be selected from the basket	3	100
2.	II	SEC-2	To be selected from the basket	3	100
3.	III	SEC-3	To be selected from the basket	3	100

Sub Total = 09

(F) Value Added Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	VAC-1	To be selected from the basket	3	100
2.	II	VAC-2	To be selected from the basket	3	100

Sub Total = 06

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	v	INT-1	Summer Internship	4	100

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	VIII	RP-1	Research/Dissertation	12	100

Grand Total = 160 Credits

(G) Basket for Multidisciplinary Courses (MDC)

To be decided by Respective Department

(H) Basket for Skill Enhancement Courses (SEC)

See at the end of structure (this booklet)

(I) Basket for Value Added Courses (VAC)

See at the end of structure (this booklet)

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Syllabus

For

Bachelor of Arts Programme

In

Public Administration

Under

Learning Outcomes-based Curriculum Framework

(LOCF)

(2023-24 onwards)

Of

NEW EDUCATION POLICY 2020

Submission of CBCS Structure for review and approval

Undergraduate 04 Years ~~CBCS~~ LOCF progamme on Public Administration for Universities of Bihar.

MAJOR CORE COURSES

Public Administration

Programme Outcome

B.A. Honours in Public Administration is very significant for aspirants of Civil Services and Community Based Organisations (CBOs). The Students after the Completion of the Programme will gain:

PO1: Theoretical and Practical Knowledge of Public Administration.

PO2: Enhanced leadership skills in a given Society.

PO3: Capacity to manage crises and optimize performance, in any organization.

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SEMESTER III

PAPER	:	MJC-3	Full Marks : 100
TITLE OF THE PAPER	:	Indian Administration	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To acquaint students with the historical evolution of administration.
CO2: To enable students to assess the intricacies of administration and find amicable solutions to problem.
CO3: To enhance publicparticipation in administration through attitudinal and behavioural change.

Course Learning Outcomes

After the completion of the course, the students will be able to:
CLO1: Compare the various administrative systems prevalent in India during different evolutionary stages.
CLO2: Analyze the practices in Indian administrative system against theoretical backdrop.
CLO3: Apply theoretical knowledge towards eliminating the shortcomings in administrative functioning in the country.

MJC 3: Indian Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Indian Administration during Mauryan, Mughal and British period	10
2	A. Environment and Ecology of Indian Administration. B. Features of Indian Administration	10
3	Structure of Central Administration – A. President, Prime Minister, Council of Ministers B. Central Secretariat, Cabinet Secretariat, Cabinet Secretary, Prime Minister' Office (PMO)	10
4	Structure of State Administration – Governor, Chief Minister, Council of Ministers, Directorate and State Secretariat	10
5	Planning Machinery – A. NITI Ayog, National Development Council (NDC) B. State Planning Machinery – State Planning Board, State Planning Council	10
	Tutorial	10
	TOTAL	60

Suggested Readings:

1) Arora, Ramesh K. and Goyal, Rajni (1997). Indian Public Administration: Institutions and Issues. New Age International Publishers: New Delhi.
2) Avasthi, A and Avasthi, A P (2004). Indian Administration. Laksmi Narain Aggarwal: Agra.
3) Chakrabarti, B. and Chanda, P.(2017). Bhartiya Prashasan: Vikas evam Padyati. Sage Publications, New Delhi.

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4) Maheshwari, R. Bharatiya Prashasan, Orient Blackswan
5) Singh, Hoshiyar and Singh, P. (2011). Bhartiya Prashasan. Pearson, Chennai.
6) Fadia, B L and Fadia, Kuldeep (2017). Indian Administration, (New Edition). Sahitya Bhawan: Agra.
7) Maheshwari, S R (2000). Indian Administration. Orient Longman: New Delhi.

Additional Readings:

1) Sharma, M (2007). Indian Administration. Anmol: New Delhi.
2) Sharma, Prabhu Datta and Sharma, B M (2009). Indian Administration: Retrospect and Prospect. Rawat Publications: Jaipur.
3) Chakraborty, Bidyut (2016). Indian Administration. Sage: New Delhi.
4) Basu, D D (2013). Introduction to the Constitution of India (21st Edition). Lexus Nexus: New Delhi

SEMESTER III

PAPER	:	MJC-4	Full Marks : 100
TITLE OF THE PAPER	:	Personnel Administration	ESE : 70
CREDIT	:	4	CIA : 30

Course Objectives

CO1: To gain conceptual knowledge of Personnel Administration.
CO2: To learn the structure and functioning of Bureaucracy in India.
CO3: To understand the challenges faced within Personnel Administration.

Course Learning Outcomes

After the completion of the course, the students will be able to:
CLO1: Describe the meaning, nature, significance and types of Personnel Administration.
CLO2: Discuss the structural and functional aspect of civil services in India and identify the challenges pertaining to their politicization.
CLO3: Analyse the powers and accountability of Personnel Administration as reflected through grievance redressal mechanism.

MJC 4: Personnel Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	A. Meaning, Growth and Development of Personnel Administration B. Nature and Significance of Personnel Administration C. Types of Personnel Administration: Bureaucratic and Democratic System	10
2	A. Structure of Civil Services in India: All India Services and State Services B. Recruitment, Training and Promotion	10
3	A. Employees – Employers Relationship B. Relationship between Political Executive and Permanent Executive C. Challenges of Personnel Administration: Neutrality, Politicization of Administration and Moral of Civil Servants	10
4	A. Redressal of Employees Grievances and its Machineries B. Citizen's Redressal of Grievances- Lokpal and Lokayukta C. Wage Policies and Salary Administration	10
	Total Lectures	40
	Tutorial	10
	TOTAL	~~60~~ 50

Suggested Readings:

1) Katariya, S. (2021). Karmik Prashasan.RBSA Publishers: Jaipur.
2) Jain, C. M. (2017). Sevavargiy Prashasan. (e-book)
3) Goel ,S. L. (2012). Public Personnel Administration. Sterling: New Delhi.
4) Das, S.K. (2013). The Civil Services in India. Oxford University Press: New Delhi.
5) Jain, R.B. (1994). Aspects of Personnel Administration. IIPA. New Delhi

Additional Readings:

1) Flippo, E. B. (1976).Principles of Personnel Management. McGraw- Hill Companies.
2) Stahi, O. G. (1971). Public Personnel Administration. Harper Row.
3) Davar, R.S. (1976).Personnel Administration and Industrial relations in India. Vikas Publishing House: New Delhi
4) Goal, S. L and Rajneesh, S. (2008) Public Personnel Administration, Deep & Deep Publishers: New Delhi.
5) Maheshwari, S.R. (2008) Public Administration in India: The Higher Civil Services. Oxford University Press: New Delhi.

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SEMESTER IV

PAPER	:	MJC-5	Full Marks : 100
TITLE OF THE PAPER	:	Comparative Administration	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To gain conceptual knowledge of comparative public administration.
CO2: To learn the operational strategies of comparative public administration.
CO3: To abreast students with the grievance redressal mechanisms in different settings.
CO4: To impart understanding of the relevance of comparative approach in the era of globalization.

Course Learning Outcomes

After the completion of the course, the students will be able to:
CLO1: Describe the approaches, indices, and models of comparative public administration
CLO2: Discuss administrative systems and accountability mechanisms of UK, USA, France and Japan.
CLO3: Identify grievance redressal mechanisms of UK, USA, France and Japan.
CLO4: Analyze the relevance of comparative approach in globalized perspective.

MJC 5: Comparative Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	A. Meaning, Nature and Scope of Comparative Public Administration. B. Salient Features of Administration in Developed and Developing Countries	08
2	Approaches to the Study of Comparative Public Administration: A. Structural Functional Approach B. Behavioural Approach C. Ecological Approach	10
3	F.W. Rigg's Views and Model in Comparative Public Administration	08
4	Administrative Systems and Accountability Mechanisms of U.K., USA, France and Japan.	12
5	A. Grievance Redressal Machinery of UK, USA, France, Japan B. Issues and Trends in Comparative Administration: Problems and Prospects of Administration in Developing Countries; Liberalization Privatization Globalization (LPG) and Relevance of Comparative Public Administration.	12
	Total Lectures	50
	Tutorial	10
	TOTAL	60

Suggested Readings:

1) Arora, R K and Sharma, S (Eds.) (1992). Comparative and Development Administration: Ideas and Actions. Arihant Centre for Administrative Change: Jaipur.
2) Bhatt, A and Ranjan, R (2010). Comparative Government and Politics (1st Edition). Anmol Publications: New Delhi.
3) Chaturvedi, T N (1994). Tulnatmak Lok Prashashan. College Book Depot: Jaipur
4) Dahiya, Sewa Singh and Singh, Ravindra (2012) Comparative Public Administration. Sterling Publishers: New Delhi.
5) Farazmand, A (Ed.) (2001). Handbook of Comparative and Development Public Administration (2nd Edition). Marcell Dekker: New York.
6) Nadkarni, Vidya and Noonan, Norman C (Eds.) (2013). Emerging Powers in a Comparative Perspective: The Political and Economic Rise of the BRIC Countries. Bloomsbury Academic: London.

Additional Readings:

1) Riggs, F W (1961). The Ecology of Public Administration. Asia Publishing House: Bombay.
2) Riggs, F W (1964). Administration in Developing Countries: The Theory of Prismatic Society. Houghton Mifflin Co.: Boston.
3) Ray, S N (2004). Modern Comparative Politics: Approaches, Methods and Issues. Prentice Hall of India: New Delhi.
4) Heady, Ferrel (2001). Public Administration: A Comparative Perspective (6th Edition). Marcel Dekker: New York.

SEMESTER IV

PAPER	:	MJC-6	Full Marks : 100
TITLE OF THE PAPER	:	Administrative Law	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To understand conceptual framework of Administrative Law.

CO2: To make the students aware of the growing importance of Administrative Law and its relation with Constitutional Law.

CO3: To provide the understanding of structures and functions of Judiciary and Administrative Tribunals.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Comprehend the conceptual framework of Administrative Law.

CLO2: Illustrate the advantages and disadvantages of Delegated Legislation and Administrative Adjunction.

CLO3: Describe the judicial control over administration and significance of PLI & RTI as well.

MJC 6: Administrative Law		
Unit	Topics to be covered	No. of Lectures
1	A. Meaning, Scope and Growing importance of Administrative Law B. Rule of Law C. Droit Administration D. Relation between Administrative Law and Constitutional Law	10
2	A. Administrative Adjudication : Its Meaning, Growth, Merits and Demerits B. Delegated Legislation: Its Meaning, Growth, Merits and Demerits	10
3	A. Structure of Judiciary : Supreme Court and High Court B. Structures and Functions of Administrative Tribunals	10
4	A. Judicial Control over Administration B. Judicial Review and Judicial Activism	10
5.	A. Principles of Natural Justice B. Public Interest Litigation(PIL) C. Lok Adalat D. Right to Information E. Commission of Enquiry	10
	Total Lectures	50

	Tutorial	10
	TOTAL	60

Suggested Readings:

1. Katariya, S. (2020). Prashasnik Sidhant evam Prabandh National Publishing House New Delhi.
2. Saha, T. K. (2001). Administrative Law. Kanishka Publishers Distributors: New Delhi
3. Kesari, U.P.D. (2016) Prashasnik Vidhi , Central Law Publications, Allahabad.
4. Jain, M.P. and Jain, S.N. (2017). Principles of Administrative Law. Dokumen Publishers, New Delhi.
5. Awasthi and Maheshwari. (2020). Prashasnik Siddhant. Laxmi Narain Agarwal:Agra

Additional Readings:

1. Pound, R. (1942) Administrative Law: Its Growth, Procedure and Significance. University of Pittsburgh: U.S.A.
2. Kagzi, M.C.J. and Madhusudan (2014) Indian Administrative Law. Universal Law Publishing Company Pvt. Limited.
3. Peter, C. (2018) Administrative Law. (ed.) Routledge: USA
4. Sengupta, S. P. (2019). Administrative Law. Kamal Law House Publications, Kolkata.
5. Craig, P. P.(2021). Administrative Law. Sweet Maxwell.

SEMESTER IV

PAPER	:	MJC-7	Full Marks : 100
TITLE OF THE PAPER	:	Financial Administration	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To help students learn the intricacies of Financial Administration.
CO2: To help students understand the process of Budget-making in India.
CO3: To encourage students to understand the importance of financial propriety of public funds.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CO1: Understand the meaning and importance of Financial Administration and how it is conducted.

CO2: Understand the principles and process of budget preparation in India.

CO3: Understand the basics of financial structures and processes involved in taxation, accounting and auditing.

MJC 7: Financial Administration		
Unit	Topics to be covered	No. of Lectures
1	Financial Administration: Definition, Nature, Scope and Significance	10
2	A. Financial Relationship between Centre and States B. Finance Ministry, Finance Commission, NITI Aayog	10
3	A. Budget: Principles of Sound Budget, Preparation and passing of Budget in Indian Parliament B. Types of Budget: Performance Budget and Zero Base Budget	10
4	A. Audit and Account System: Principles of Auditing and Accounting B. Powers, Functions and Role of CAG in India	10
5	C. Principles of Taxation D. RBI: Composition and Functions	10
	Total Lectures	50
	Tutorial	10
	TOTAL	60

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Suggested Readings:

1. Mahajan, A.P. and Mahajan, S.K. Financial Administration in India, PHI Learning.
2. Thavaraj, M.J.K. (2014), Financial Administration in India, Sultan Chand & Sons, New Delhi.
3. Goel, S.L. (2002), "Public Financial Administration", Deep and Deep Publication, New Delhi.
4. D.M. Mithani,(2018), "International Economics", Himalaya Publishing House
5. Panda, S. (1989). Financial Administration and Personnel Management in Public Enterprises, Mittal Publications, New Delhi.
6. Lall, G.S. (1976). Public Finance and Financial Administration in India, Kapoor Publishers, New Delhi.
7. Panda, S. (1989). Financial Administration and Personnel Management in Public Enterprises, Mittal Publications, New Delhi.
8. Mukherjee, S.S. (1979). Indian Public Finance and Financial Administration, Surjeet Publications, Delhi.

Additional Readings:

1. Sahib Singh & Swinder Singh, Public Personnel and Financial Administration, New Academic Publishing Co., Jalandhar.
2. Mahajan, S.K. (2014), Financial Administration in India, PHI Learning.
3. Sundram, K.P.M. (1979). Indian Public Finance and Financial Administration, Delhi.
4. Gupta, B.N. (1970). Indian Federal Financial and Budgetary Policy, Allahabad.
5. Bhargava, R.N. (1962). Indian Public Finances. George Allen & Unwin Ltd.

SEMESTER V

PAPER	:	MJC-8	Full Marks : 100
TITLE OF THE PAPER	:	Social Welfare Administration	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To impart knowledge of disciplinary and professional nuances of social welfare administration.

CO2: To acquaint students with the focal social welfare administration machinery in India.

CO3: To enable students to appreciate the issues and measures with respect to various disadvantaged groups in the society.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Exhibit disciplinary and professional proficiency in social welfare administration.

CLO2: Examine the role of various agencies in social welfare administration.

CLO3: Generate problem solving strategies to help the various disadvantaged sections in the society.

MJC 8: Social Welfare Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	A. Meaning, Features, Nature, Scope, Significance and Principles of Social Welfare Administration. B. Related concepts: Social Welfare, Social Work, Social Change, Social Justice; Social Exclusion and Inclusive Development	12
2	A. Evolution of Social Welfare Administration in India as a Discipline and as a Profession B. Constitutional Provisions for Social Welfare in India.	10
3	A. Institutional Mechanisms in India: Ministry of Social Welfare, Central Social Welfare Board (CSWB), State Social Welfare Advisory Board. B. Role of Voluntary Organisations in social welfare administration: Civil Society and NGOs.	10
4	A. Grants-in-Aid and Fund Raising for social welfare. B. Role of CSR in social welfare administration	8
5	Welfare Policies for Women, Child, Youth, Transgender, Disabled and Aged.	10
	Total Lectures	50
	Tutorial	10
	TOTAL	60

Suggested Readings:

1) Chowdhary, D.P. (1992). Social Welfare Administration in India, Deep and Deep Publication, New Delhi.

2) Goel and Kumar (2004) Administration and Management of NGOs, Deep and Deep Publication, New Delhi.
3) Sachdeva, D.R. (1993). Social Welfare Administration in India, Allahabad, Kitab Mahal.
4) Siddiqui, H.Y (1990) Social Welfare in India, Harnam Publications, New Delhi
5) Kataria, S. (2010). Samajik Prashaasan: Kalyan Prashasan. Raj Books and Subscription Agency
6) Chakrabarti, B. and Chand, P. (2018) Vaishwikrit Duniya me Lok Prashasan: Siddhant aur Padyatiyaan. Sage Publications

Additional Readings:

1) Goel, S.L. and Jain, R.K (1988). Social Welfare Administration, Vol. I and II, Deep Publication, New Delhi.
2) Kaushik, A (2012). Welfare and Development Administration in India, Global Vision Publishing House, New Delhi.
3) Naidu, S.P. (1996). Public Administration Concept and Theories, New Age International Publishers, New Delhi.

SEMESTER V

PAPER : MJC-9
TITLE OF THE PAPER : Development Administration
CREDIT : 5

Full Marks : 100
ESE : 70
CIA : 30

Course Objectives

CO1: To understand conceptual framework of Development Administration.

CO2: To make the students aware of the models of development within comparative framework.

CO3: To provide the micro and macro perspective related to development at grassroot level and the contribution by international organizations.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Comprehend the conceptual framework of Development Administration.

CLO2: Illustrate the significance of Development Administration in developed and developing nations.

CLO3: Discuss the significance of International Organizations and technical assistance.

MJC 9: Development Administration		
Unit	Topics to be covered	No. of Lectures
1	A. Meaning, Objectives, Nature and Scope of Development Administration B. Role of Development Administration in Developing and Developed Countries	10
2	Models of Development A. Edward W. Weidner's Model B. F.W. Riggs's Model C. Sustainable Development Model	10
3	A. Traditional Public Administration & Development Administration B. Development Administration & Administrative Development	10
4	A. Development at Grassroot Level : People Participation and Policy Making B. Bureaucracy and Administrative Capability	10
5.	A. International Aid and Technical Assistance B. Role and Functions of IMF, World Bank and WTO	10
	Tutorial	10
	TOTAL	60

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Suggested Readings:

1) Johri, J.C. and Sharma, Rashmi (2021). Lok Prashasan. S B P D Publication: Agra.
2) Sapru, R.K. (2014). Development Administration, Sterling Publishers, New Delhi.
3) Bhattcharya, Mohit (2011). Social Theory and Development Administration, Jawahar Publishers and Distributors: New Delhi.
4) Mahajan, A.P. (2019) Development Administration in India. SAGE Publications India Pvt Ltd.
5) Sapru, R.K. and Sapru, Y. (2021). Development Administration: Trend Towards Development Management. Sterling Publishers Pvt.Ltd., New Delhi.
6) Kumar, U. (1996). Vikas Prashasan. Novelty Publications, Patna.

Additional Readings:

1) Edward W. Weidner ,Ed. (1970),Development Administration in Asia. Durham, N.C. Duke University Press,
2) V.A. Pai Panandikar (ed) (1974), Development Administration in India, Macmillan, New Delhi.
3) Dwivedi, O.P. (1994). Development Administration: From Underdevelopment to Sustainable Development. Palgrav Macmillan, London.
4) Pattanayak, R. (1997), Dynamics of Development Administration, Anmol Publications Pvt. Ltd. New Delhi.
5) Mathur, K. (1996), Development Policy and Administration: Readings in Indian Government and Politics, Sage Publication

SEMESTER VI

PAPER	:	MJC-10	Full Marks : 100
TITLE OF THE PAPER	:	Local Self Government	ESE : 70
CREDIT	:	04	CIA : 30

Course Objectives

CO1: To gain theoretical knowledge about Local Self Government in India.

CO2: To learn the structure and functioning of Rural-Local Government and Urban- Local Government in India.

CO3: To understand the revenue sources and challenges before the Local Self Government in Bihar.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Describe the theoretical framework of Local Self Government in India.

CLO2: Comprehend the structural and functional aspects of Rural-Local Government and Urban- Local Government in India.

CLO3: Analyse the challenges and barriers before the Local Self Government.

MJC 10: Local Self Government		
Unit	Topics to be covered	No. of Lectures
1	Meaning, Nature, Scope and Development of Local Self Government with special reference to Bihar	08
2	Structures and Functions of Rural-Local Administration : Gram Panchayat, Panchayat Samiti, Zila Parishad according to 73rd Constitutional Amendment	10
3	Structures and Functions of Urban-Local Administration according to 74th Constitutional Amendment	10
4	A. Sources of Revenue of the Local Administration B. Government Control over Local Self Government Institutions C. Challenges before the Local Self Government with special reference to Bihar	12
	Total Lectures	40
	Tutorial	10
	TOTAL	50

Suggested Readings:

1. Sharma, H.C. (2013). Bharat me Sthaniya Prashasan, College Book Depot, Jaipur.

2. Maheshwari, S.R. (2017).Bharat me Sthaniya Shasan, Laxmi Narayan Agarwal, Agra.
3. Maheshwari, S.R. (1995), Rural Development in India: A Public Policy Approach, Laxmi Narayan Agarwal, Agra.
4. Singh, Katar (2015). Gramin Vikas: Siddhant, Nitiyan evam Prabandh, Sage, New Delhi.
5. Sharma, R. (2023). Sthaniya Swashasan SBPD, Agra.

Additional Readings:

1. Singha, K. (2010). Rural Development in India: Retrospect and Prospects. Concept Publishing Company, New Delhi.
2. Sharma, H. Bharat me Sthaniya Prashasan, C.B. Depot, Jaipur
3. Bihar Panchayati Raj Act, 2006.Government Publication
4. Bihar Nagarpalika Act, 2007. Government Publication
5. Singh, Bameshwar (2012).Bharat me Sthaniya Swashasan, Radha Publication, New Delhi.

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SEMESTER VI

PAPER	:	MJC-11	Full Marks : 100
TITLE OF THE PAPER	:	Principles of Organisation	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To familiarize the students with the concept and typology of organization.

CO2: To impart an understanding of the various principles of organisation

CO3: To enable the students to relate the principles of organization to daily practice.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Identify different types of organisations.

CLO2: Explain the various principles of organization.

CLO3: Exhibit better abilities vis-à-vis organizational conduct in daily life.

MJC 11: Principles of Organisation		
Unit	**Topics to be covered**	**No. of Lectures**
1	Meaning, Features and Types of Organisation; Bases of Departmental Organisation.	10
2	Hierarchy, Unity of Command, Coordination, Span of Control	10
3	Authority, Centralization, Decentralization, Delegation	10
4	Supervision; Line, Staff and Auxiliary Agencies	10
5	Leadership, Communication, Motivation, Morale	10
	Tutorial	10
	TOTAL	60

Suggested Readings:

1) D.H. Rosenbloom & R.S. Kravchuk (2006), Public Administration, Mc-Graw Hill International Edition.
2) Noorjahan Bava, Public Administration in the 21st Century, Kanishaka Publishers, Distributors, New Delhi, 2004
3) Avasthi and S.R. Maheswari, Public Administration, Agra, Lakshmi Narain Aggarwal, 1996.
4) C.P. Bhambri, Administrators in a Changing Society, Bureaucracy and Politics in India, Delhi, Vikas, 1971.
5) M. Bhattacharya, Public Administration: Structure, Process and Behaviour, Calcutta, The World Press, 1991.

Additional Readings:

1) P. H. Appleby, Policy and Administration, Alabama University of Albama Press, 1957.
2) Restructuring Public Administration: Essays in Rehabilitation, New Delhi, Jawahar Publishers, 1999.

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3) G. E. Caiden, Dynamics of Public Administration: Guidelines to Current Transformation in Theory and Practice, New York, Holt, 1971.
4) M. E. Dimock, and G.O. Dimock, Public Administration, Oxford, I.B.H. Publishing Company, 1975.
5) K. Henry, Public Administration and Public Affairs, Prentice-Hall, Recent Edition

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SEMESTER VI

PAPER	:	MJC-12	Full Marks : 100
TITLE OF THE PAPER	:	Public Policy	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To generate an awareness of the theoretical perspectives on public policy in the students.

CO2: To acquaint the students with the models and approaches of public policy.

CO3: To develop an understanding of the role of various institutions and agencies in policy process

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Describe the concept and significance of public policy in the development process.

CLO2: Explain the various models and approaches to public policy.

CLO3: Analyze the role of various institutions and agencies in the different stages of policy process.

MJC 12: Public Policy		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to Public Policy: A. Meaning, Nature, Scope, Types and Significance of Public Policy. B. Evolution of Public Policy Studies; Public Policy Cycle	08
2	Models and Approaches of Policy Formulation – Public Choice Approach, Elite Theory, Rational Approach, Decision Making Model, Systems Model, Incremental Model.	10
3	Institutional Arrangement for Policy Making in India A. Role of various Stakeholders & Networks in Policy Making B. Influencing Factors and Challenges for Effective Policy Making.	10
4	A. Policy Implementation in India: Issues and Perspective B. Public Policy Delivery Agencies and Implementers: Aspects of Policy Design for Implementation, Modes of Policy Delivery and Implementers, Enforcement Modes. C. Problems in Public Policy Implementation: Conceptual, Political and Administrative Problems; Conditions for Successful Implementation.	11
5	A. Policy Monitoring: Approaches and Techniques, Constraints in Policy Monitoring, Measures for Effective Policy Monitoring. B. Policy Evaluation: Role, Process and Criteria, Types of Evaluation, Evaluating Agencies – Problems in Policy Evaluation.	11
	Total Lectures	50
	Tutorial	10
	TOTAL	60

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Suggested Readings:

1) Sapru, R.K. (2012). Public Policy: Formulation, Implementation and Evaluation. New Delhi: Sterling.
2) Sapru, R.K. (2013). Public Policy: Art and Craft of Policy Analysis. Delhi: PHI Learning.
3) Ayyar, R. V. (2009). Public Policymaking in India. Pearson Education India.
4) Sharma, Rashmi. (2021). Prashasan evam Lokniti : Awdharnaaye evam Siddhant, SBPD, Agra
5) Sinha, Manoj. (2010). Prashasan evam Lokniti, Orient Blackswan.
6) Sapru, R.K. (2021). Lokniti, Sterling Prakashan, New Delhi.

Additional Readings:

1) Stone, Deborah (2012). Policy Paradox: The Art of Political Decision Making. W. W. Norton & Company.
2) Birkland, Thomas A. (2019). An Introduction to the Policy Process: Theories, Concepts, and Models of Public Policy Making. New York: Routledge.
3) Howlett, M. and M. Ramesh (2003). Studying Public Policy: Policy Cycle and Policy Subsystems. Ontario: OUP.
4) Reinicke, W. H. (1998). Global Public Policy. Brookings Institution Press, Washington.
5) Wildavsky, Aaron (1980). The Art and Craft of Policy Analysis. London: Macmillan.
7) Dror, Y. (1989). Public Policy Making Re-examined. New Jersey: Transaction Publishers.

SEMESTER VII

PAPER	:	MJC-13	Full Marks : 100
TITLE OF THE PAPER	:	Good Governance	ESE : 70
CREDIT	:	5	CIA : 30

Course Objectives

CO1: To provide a comprehensive understanding about concepts related to governance and good governance.

CO2: To introduce, to the students, the changing trends and paradigms in Governance.

CO3: To develop an understanding of the role of various stakeholders in good governance.

CO4: To acquaint the students with the good governance practices prevalent in India.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Describe the various related concepts and significance of good governance.

CLO2: Explain the various emerging trends in governance and good governance.

CLO3: Examine the role of various stakeholders in good governance.

CLO4: Appreciate the utility of various good governance practices in India.

MJC 13: Good Governance		
Unit	**Topics to be covered**	**No. of Lectures**
1	A. Good Governance: Concept, Features, Significance and Evolution. B. Related Terms: Government, Governance, Minimum Government and Maximum Governance	10
2	A. United Nations and Good Governance; Indian Context of Good Governance. B. Waves of Governance	10
3	A. Role of State, Market, Citizen and Media in Good Governance. B. Emerging Areas of Governance: Corporate Governance, Global Governance, Disaster Governance, Technology Governance	12
4	A. Governance Issues and Challenges in Various Sectors B. Transparency and Accountability, Integrity and Ethics;	08
5	A. Good Governance Practices in India: E-governance, Citizens Charters, RTI, Ease of Doing Business, Good Governance Index. B. Challenges to Good Governance and Need for Reforms.	10
	Tutorial	10
	TOTAL	60

Suggested Readings:

1) N. Bhaskara Rao, Good Governance: Delivering Corruption-Free Public Services, SAGE India, 2013.
2) Surendra Munshi & Biju Paul Abraham (eds.), Good Governance, Democratic Societies and Globalization, SAGE India, 2004.

3) Smita Mishra Panda, Engendering Governance Institutions State, Market and Civil Society, SAGE India, 2008.
4) Gupta, S. and Kumar, K. (2016). Sushasan, NBT, New Delhi
5) Verma, J. (2005). Good Governance aur Udyamita. Vikas Prashasan, Delhi
6) Gandhi, A.V. (2017). Sushasan ki awdharna evam Sikhe. Prakashan Bharti
7) Sharma, B.N. (2010). Good Governance aur Sarkari Prabandhan. Vikas Prashasan, Delhi.

Additional Readings:

1) Rajesh Tandon & Ranjita Mohanty (eds.), Does Civil Society Matter? Governance in Contemporary India, SAGE India, 2003.
2) Kameshwar Choudhary, Gobalisation, Governance Reforms and Development in India, SAGE India, 2008.
3) Surendra Munshi, Biju Paul Abraham & Soma Chaudhuri, The Intelligent Person's Guide to Good Governance, SAGE India, 2009.
4) B. C. Smith, Good Governance and Development, Palgrave Macmillan, 2007.
5) V. Santhakumar, The Roots of Ill-Governance and Corruption, SAGE India, 2014.

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SEMESTER VII

PAPER	:	MJC-15	Full Marks : 100
TITLE OF THE PAPER	:	Emerging Trends in Public Administration	ESE : 70
CREDIT	:	6	CIA : 30

Course Objectives

CO1: To introduce, to the students, the emerging trends and techniques in Public Administration.

CO2: To acquaint the students with the role of different stakeholders in administration.

CO3: To impart an understanding of the modern paradigms of administration.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Explain the different emerging trends and techniques in Public Administration.

CLO2: Analyze the role of different stakeholders in administration.

CLO3: Examine the applicability of modern paradigms of administration towards enhanced governance.

MJC 15: Emerging Trends in Public Administration		
Unit	Topics to be covered	No. of Lectures
1	Changing Dimensions of Public Administration: A. New Techniques of Administration B. Participatory Governance	10
2	Human Resource Management, Management Information Systems, ICT in Administration	10
3	Public Private Partnership, Civil Society Empowerment, Role of Media in Governance	10
4	Gender Studies, Tribal Welfare, Labour Welfare	10
5	Climate Change and Environmental Governance, Disaster Management	10
6	Administrative Ethos and Integrity, Challenges of Modern Administrative System; Remedies and Reforms	10
	Tutorial	10
	TOTAL	70

Suggested Readings:

1) Kumar, Rajesh, Ambedkar, S.N. and Meena, J.S. (2020). Emerging Trend in Public Administration: Engagement in Policy and Service Delivery for the 21st Century. New Delhi: Akhand Publishing House.

2) Mohapatra, A.K., Sinha, A.K. and Pandey, A. (2016). Emerging Trends in Management and Public Policy. Regal Publications.

3) Bhattacharya, Mohit (2018). New Horizons of Public Administration. New Delhi: Jawahar Publishers.

4) Chakrabarti, B. and Chanda, P.(2017). Bhartiya Prashasan: Vikas evam Padyati. Sage Publications, New Delhi.

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5) Maheshwari, R. Bharatiya Prashasan, Orient Blackswan

6) Singh, Hoshiyar and Singh, P. (2011). Bhartiya Prashasan. Pearson, Chennai.

Additional Readings:

1) Dubhashi, P.R.(1995) Recent Trends in Public Administration. Kaveri Books.

2) O'Toole.Barry J. (2000).Public Policy and Administration:Recent Trends and Future Prospects. Royal Institute of Public Administration.

3) McLaughlin, K; Ferlie, E. ; Osborne, S. P. (2005). New Public Management: Current Trends and Future Prospects, Routledge, London.

4) Narain, L. (2014).Public Enterprise Management and Privatization, S. Chand, New Delhi.

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SEMESTER VIII

PAPER	:	MJC-16 Administration of Public enterprises	Full Marks : 100
TITLE OF THE PAPER	:	~~Emerging Trends in Public Administration~~	ESE : 70
CREDIT	:	4	CIA : 30

Course Objectives

CO1: To gain conceptual knowledge of the meaning, nature and importance of Public Enterprises.

CO2: To develop an understanding the mechanisms of control over Public Enterprises.

CO3: To understand the personnel management of Public Enterprises and various challenges faced by them.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Describe the meaning, types and importance of Public Enterprises and their personnel management.

CLO2: Understand the control mechanisms over Public Enterprises to ensure their efficiency and also their changing role in the light of liberalization and disinvestment policies.

CLO3: Analyse the regional constraints as well as opportunities faced by Public Enterprises in context of the State of Bihar.

MJC 16: Administration of Public Enterprises		
Unit	Topics to be covered	No. of Lectures
1	A. Meaning, Nature and significance of Public Enterprises B. Typology of Public Enterprises	10
2	Control over Public Enterprise : Legislative, Administrative and Financial	10
3	A. Personnel Management of Public Enterprises: Process of Selection, Training and Development B. Industrial Relations in Public Enterprises	10
4	A. New Economic Policy and Changing Nature of Public Enterprises B. Problems and Prospects of Public Enterprises in India with special reference to Bihar	10
	Total Lectures	40
	Tutorial	10
	TOTAL	~~60~~ 50

Suggested Readings:

1. Nigam, Raj K. (1971). Management of Public Sector in India. Bombay.

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SEMESTER VIII

PAPER	:	MJC-16	Full Marks : 100
TITLE OF THE PAPER	:	Administration of Public Enterprises	ESE : 70
CREDIT	:	4	CIA : 30

Course Objectives

CO1: To gain conceptual knowledge of the meaning, nature and importance of Public Enterprises.

CO2: To develop an understanding the mechanisms of control over Public Enterprises.

CO3: To understand the personnel management of Public Enterprises and various challenges faced by them.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Describe the meaning, types and importance of Public Enterprises and their personnel management.

CLO2: Understand the control mechanisms over Public Enterprises to ensure their efficiency and also their changing role in the light of liberalization and disinvestment policies.

CLO3: Analyse the regional constraints as well as opportunities faced by Public Enterprises in context of the State of Bihar.

MJC 16: Administration of Public Enterprises		
Unit	Topics to be covered	No. of Lectures
1	A. Meaning, Nature and significance of Public Enterprises B. Typology of Public Enterprises	10
2	Control over Public Enterprise : Legislative, Administrative and Financial	10
3	A. Personnel Management of Public Enterprises: Process of Selection, Training and Development B. Industrial Relations in Public Enterprises	10
4	A. New Economic Policy and Changing Nature of Public Enterprises B. Problems and Prospects of Public Enterprises in India with special reference to Bihar	10
	Total Lectures	40
	Tutorial	10
	TOTAL	60

Suggested Readings:

1. Nigam, Raj K. (1971). Management of Public Sector in India. Bombay.

2. Narayan, L. (1980). Principles and Practices of Public Enterprises Management, New Delhi.
3. Khera, S.S. (1977).Government of Business. National Publishing House, Delhi.
4. Mallaya, N.M. (1978). Public Enterprises in India: Their Control and Accountability, Institute of Constitutional and Parliamentary Studies, New Delhi.
5. Prakash, Chandra. (1982).Personnel Administration in Public Undertaking, IIPA, New Delhi.
6. Mathur, B.P. (1973). Public Enterprises in Perspective: Aspects of Financial Administration and Control. Orient Longman. New Delhi.
7. Arora, R.S. (1969). Administration of Government Industries, IIPA, New Delhi.
8. Johri J.C. and Sharma, R.(2021). Lok Prashasan. SBPD Publications, Agra.

Additional Readings:

1. Prajapati, D.(2023). Lok Udyam ka Arthshastra. Sahitya Bhawan Publications, Agra.
2. Jain, R.K. Mnagement of Public Enterprises in India.
3. Prakash, J.(1980). Public Enterprises in India: A Study in Controls, Thinkers Library, Allahabad.
4. Gandhok, D.N. (1980). Accountability of Public Enterprises to Parliament, Sterling Publishers, New Delhi.

MINOR COURSES

Public Administration

Programme Outcome

PO1: Students will display active citizenship and civic engagement though having different major programme.

PO2: Students will develop critical thinking and political communication skills.

PO3: Students will be capable of rational decision- making and become committed leaders in making.

PO4: Students will be in position to make comparative study of global Administrative systems.

PO5:Students will identify core mechanisms of public policy, organization and management of resources.

SEMESTER–I

PAPER	:	**MIC-1**	**Full Marks : 100**
TITLE OF THE PAPER	:	**Introduction to Public Administration**	**ESE : 70**
CREDIT	:	**3**	**CIA : 30**

Course Objectives

1. To inculcate ethos of AdministrativeBehaviour.
2. To build capacity of Students in formulating conceptual Constructs of Public Administration.
3. To deliver among students, quality of decision making, communication and leadership.
4. To make student an awakened citizenry.

Course Outcomes

1. Students learn to become good managers.
2. Students learn to share social responsibility and civic engagement.
3. Students understand government policies with direct impact on citizens' well being.
4. Students hold administrative positions with efficacy and deliver significant result.

MIC 1:Introduction to Public Administration

MIC 1: Introduction to Public Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Meaning,Nature,Scope and Significance of Public Administration Public and Private Administration	12
2	Relations with other Social Sciences- History, Sociology, Economics, Political Science and Psychology. Evolution of Public Administration.	10
3	Control over Administration a. Legislative b. Executive c. Judicial	08
	Total Lectures	30
	Tutorial	10
	TOTAL	40

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Suggested Readings –

1. Avasthi and Maheswari – *Public Administration* – Lakshmi Narayan Agrawal , Publisher, Agra 2018 (E+H).
2. B.L. Fadia, *Public Administration*, Sahitya Bhawan Publisher, Agra, 2004 (E+H).
3. C.P Bhambhri, *Public Administration, Theory and Practice*, Jai Prakash Nath Publisher, Meerut, 1991
4. Ramesh K. Arora, *Administrative Theory*, I.I.P.A Publisher, New Delhi.
5. एम. पी. शर्मा एवं बी. एल. सदाना, *लोक प्रशासनसिद्धांत एवं व्यवहार*, किताब महल, दिल्ली, 1991

Additional Readings –

1. Vishnu Bhagwan and Vidya Bhushan, *Theory of Public Administration*, S.Chand and Company, New Delhi, 1991
2. Ramesh K. Arora, *Perspective in AdministrativeTheory*, Associate Publisher, New Delhi, 1979
3. Manjari Damle and Kamlesh Kumar Gupta, *Contemporary Public Administration* (in Hindi), K.K. Publisher, New Delhi, 2021
4. Dennart and Dennart, *Public Administration* , Rawat Publisher, Jaipur, 2009
5. Feli A. Nagare, *Modern Public Administration*, New Delhi, 1977

SEMESTER–II

PAPER	:	MIC-2	Full Marks : 100	
TITLE OF THE PAPER	:	Union Administration	ESE	: 70
CREDIT	:	3	CIA	: 30

Course Objectives

1. To Learn basic principles and approaches to the understanding of Indian Administration.
2. To make students aware of federal Parliamentary Democracy operating in India.
3. To enable Students become conscious of their fundamental rights along with their duties.
4. To make students responsible citizen.

Course Outcomes

1. Students will ensure equal rights to everyone.
2. Students will judiciously select their leader, without any bias or predilection..
3. Students will respect norms of sovereignty and integrity of Nation and will pursue its goal, through political and administrative behavior.
4. They will follow the concept of Integrated Judiciary with Parliamentary Sovereignty, functioning in India.

MIC 2: Union Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Growth of the discipline of Public Administration in India. Role of Administration in Indian Democracy.	08
2	a. Preamble b. Fundamental Rights c. Fundamental Duties and d. Directive Principles	10
3	a. President b. Prime Minister c. Council of Ministers d. Cabinet Secretariat and e. Prime Minister's Office (P.M.O.)	12
	Total Lectures	30
	Tutorial	10
	TOTAL	40

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Suggested Readings-

1. S. R. Maheshwari, *Indian Administration,* Orient Longman, New Delhi, 1947
2. Awasthi and Maheshwari, *Indian Administration*, Laxmi Narayan Agrawal, Agra, 1995, (E+H)
3. Hoshiar Singh, *Public Administration in India*, Sterling Publisher, New Delhi, 1990
4. हरिश्चन्द्र शर्मा एवं रमेश दूबे,*भारत में लोक प्रशासन,* कॉलेज बुक डिपो, जयपुर 1990
5. बी. एल फडीया,*भारत में लोक प्रशासन,* साहित्य भवन, आगरा, 2009

Additional Readings-

1. Hoshigar Singh and Pankaj Singh, *Indian Administration*, Pearson Publisher, New Delhi-2013
2. Kamlesh Gupta, *District Administration in India*, K. K. Publication, New Delhi, 2014
3. एम, लक्ष्मीकान्त, *भारतीय राज्य व्यवस्था,* टी. एच. एम. प्रकाशन, नई दिल्ली, 2021
4. अवस्थी एवं अवस्थी, *भारतीय प्रशासन,* लक्ष्मी नारायण अग्रवाल प्रकाशन, आगरा, 2020
5. सुरेन्द्र कटारीया, *भारत में लोक प्रशासन,* आर. बी. एस. ए. प्रकाशन, जयपुर, 2021

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SEMESTER III

PAPER	:	MIC-3	Full Marks : 100
TITLE OF THE PAPER	:	State Administration	ESE : 70
CREDIT	:	3	CIA : 30

Course Objectives

CO1: To enable students to assess the intricacies of provincial administration and find amicable solutions to problem.

CO2: To enhance publicparticipation in administration through attitudinal and behavioural change.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Analyze the practices in Indian administrative system against theoretical backdrop.

CLO2: Apply theoretical knowledge towards eliminating the shortcomings in administrative functioning in the state.

MIC 3: State Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Executive: Governor, Chief Minister and Council of Ministers	10
2	State Secretariat: Chief Secretary, Directorate and Secretariat	10
3	State Election Commission, State Planning Machinery, Bihar Public Service Commission, State Finance Commission	10
	Total Lectures	30
	Tutorial	10
	TOTAL	40

Suggested Readings:

1) S.R. Maheshwari. (1980). State Government in India. Macmillan: New Delhi.
2) J.D. Shukla (1977). State and District Administration in India. National Publishing House: New Delhi.
3) B. Mehta (1975). Dynamics of State Administration.

Additional Readings:

1) Sharma, M (2007). Indian Administration. Anmol: New Delhi.
2) Sharma, Prabhu Datta and Sharma, B M (2009). Indian Administration: Retrospect and Prospect. Rawat Publications: Jaipur.
3) Chakraborty, Bidyut (2016). Indian Administration. Sage: New Delhi.

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SEMESTER IV

PAPER	:	MIC-4	Full Marks : 100
TITLE OF THE PAPER	:	Local Self Government	ESE : 70
CREDIT	:	3	CIA : 30

Course Objectives

CO1: To gain theoretical knowledge about Local Self Government in India.

CO2: To learn the structure and functioning of Rural-Local Government and Urban- Local Government in India.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Describe the theoretical framework of Local Self Government in India.

CLO2: Comprehend the structural and functional aspects of Local Government in India.

MIC4: Local Self Government		
Unit	**Topics to be covered**	**No. of Lectures**
1	Meaning, Nature, Scope and Development of Local Self Government with special reference to Bihar	08
2	Structures and Functions of Rural-Local Administration : Gram Panchayat, Panchayat Samiti, Zila Parishad according to 73rd Constitutional Amendment	11
3	Structures and Functions of Urban-Local Administration according to 74th Constitutional Amendment	11
	Total Lectures	30
	Tutorial	10
	TOTAL	40

Suggested Readings:

6. Sharma, H.C. (2013). Bharat me Sthaniya Prashasan, College Book Depot, Jaipur.
7. Maheshwari, S.R. (2017).Bharat me Sthaniya Shasan, Laxmi Narayan Agarwal, Agra.
8. Maheshwari, S.R. (1995), Rural Development in India: A Public Policy Approach, Laxmi Narayan Agarwal, Agra.
9. Singh, Katar (2015). Gramin Vikas: Siddhant, Nitiyan evam Prabandh, Sage, New Delhi.
10. Sharma, R. (2023). Sthaniya Swashasan SBPD; Agra.

Additional Readings:

6. Singha, K. (2010). Rural Development in India: Retrospect and Prospects. Concept Publishing Company, New Delhi.
7. Sharma, H. Bharat me Sthaniya Prashasan, C.B. Depot, Jaipur
8. Bihar Panchayati Raj Act, 2006.Government Publication
9. Bihar Nagarpalika Act, 2007. Government Publication
10. Singh, Bameshwar (2012).Bharat me Sthaniya Swashasan, Radha Publication, New Delhi.

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SEMESTER V

PAPER	:	MIC-5	Full Marks : 100
TITLE OF THE PAPER	:	Social Welfare Administration	ESE : 70
CREDIT	:	3	CIA : 30

Course Objectives

CO1: To impart knowledge of disciplinary and professional nuances of social welfare administration.

CO2: To acquaint students with the focal social welfare administration machinery in India.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Exhibit disciplinary and professional proficiency in social welfare administration.

CLO2: Examine the role of various agencies in social welfare administration.

MIC5: Social Welfare Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	A. Meaning, Features, Nature, Scope, Significance and Principles of Social Welfare Administration. B. Related concepts: Social Welfare, Social Work, Social Change, Social Justice; Social Exclusion and Inclusive Development	10
2	Role of Central Social Welfare Board (CSWB), State Social Welfare Advisory Board and Voluntary Organisations in social welfare administration.	10
3	Welfare Policies for Women, Child, Youth, Transgender, Disabled and Aged	10
	Total Lectures	30
	Tutorial	10
	TOTAL	40

Suggested Readings:

1) Chowdhary, D.P. (1992). Social Welfare Administration in India, Deep and Deep Publication, New Delhi.
2) Goel and Kumar (2004) Administration and Management of NGOs, Deep and Deep Publication, New Delhi.
3) Sachdeva, D.R. (1993). Social Welfare Administration in India, Allahabad, Kitab Mahal.
4) Kataria, S. (2010). Samajik Prashaasan: Kalyan Prashasan. Raj Books and Subscription Agency
5) Chakrabarti, B. and Chand, P. (2018) Vaishwikrit Duniya me Lok Prashasan: Siddhant aur Padyatiyaan. Sage Publications

Additional Readings:

1) Goel, S.L. and Jain, R.K (1988). Social Welfare Administration, Vol. I and II, Deep Publication, New Delhi.
2) Kaushik, A (2012). Welfare and Development Administration in India, Global Vision Publishing House, New Delhi.

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3) Naidu, S.P. (1996). Public Administration Concept and Theories, New Age International Publishers, New Delhi.

4) Siddiqui, H.Y (1990) Social Welfare in India, Harnam Publications, New Delhi

SEMESTER VI

PAPER	:	**MIC-6**	**Full Marks : 100**
TITLE OF THE PAPER	:	**Development Administration**	**ESE : 70**
CREDIT	:	**3**	**CIA : 30**

Course Objectives

CO1: To understand conceptual framework of Development Administration.
CO2: To make the students aware of the models of development within comparative framework.

Course Learning Outcomes

After the completion of the course, the students will be able to:
CLO1: Comprehend the conceptual framework of Development Administration.
CLO2: Illustrate the significance of Development Administration in developed and developing nations.

MIC6: Development Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Meaning, Objectives, Nature and Scope of Development Administration Role of Development Administration in Developing and Developed Countries	10
2	Rural and Urban Development Administration at the State level. Development Administration at the District and Local levels	10
3	Problems and Challenges of Development Administration. Techniques and Strategies in Extension Work.	10
	Total Lectures	30
	Tutorial	10
	TOTAL	40

Suggested Readings:

7) Johri, J.C. and Sharma, Rashmi (2021). Lok Prashasan. S B P D Publication: Agra.
8) Sapru, R.K. (2014). Development Administration, Sterling Publishers, New Delhi.
9) Bhattcharya, Mohit (2011). Social Theory and Development Administration, Jawahar Publishers and Distributors: New Delhi.
10) Mahajan, A.P. (2019) Development Administration in India. SAGE Publications India Pvt Ltd.
11) Sapru, R.K. and Sapru, Y. (2021). Development Administration: Trend Towards Development Management. Sterling Publishers Pvt.Ltd., New Delhi.

12) Kumar, U. (1996). Vikas Prashasan. Novelty Publications, Patna.

Additional Readings:

6) Edward W. Weidner ,Ed. (1970);Development Administration in Asia. Durham, N.C. Duke University Press,
7) V.A. Pai Panandikar (ed) (1974), Development Administration in India, Macmillan, New Delhi.
8) Dwivedi, O.P. (1994). Development Administration: From Underdevelopment to Sustainable Development. Palgrav Macmillan, London.
9) Pattanayak, R. (1997), Dynamics of Development Administration, Anmol Publications Pvt. Ltd. New Delhi.
10) Mathur, K. (1996), Development Policy and Administration: Readings in Indian Government and Politics, Sage Publication

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SEMESTER VI

PAPER	:	**MIC-7**	**Full Marks : 100**
TITLE OF THE PAPER	:	**Personnel Administration**	**ESE : 70**
CREDIT	:	**3**	**CIA : 30**

Course Objectives

CO1: To gain conceptual knowledge of Personnel Administration.
CO2: To learn the structure and functioning of Bureaucracy in India.

Course Learning Outcomes

After the completion of the course, the students will be able to:
CLO1: Describe the meaning, nature, significance and types of Personnel Administration.
CLO2: Discuss the structural and functional aspect of civil services in India and identify the challenges pertaining to their politicization.

MIC7: Personnel Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Meaning, Nature, Role and Significance of Personnel Administration in India. Its Challenges and Remedies.	10
2	Recruitment Agencies – Union Public Service Commission, State Public Service Commissions, Staff Selection Committtee	10
3	Recruitment, Training, Promotion, Discipline and Code of Conduct of Civil Service.	10
	Total Lectures	30
	Tutorial	10
	TOTAL	40

Suggested Readings:

1) Katariya, S. (2021). Karmik Prashasan.RBSA Publishers: Jaipur.
2) Jain, C. M. (2017). Sevavargiy Prashasan. (e-book)
3) Goel ,S. L. (2012). Public Personnel Administration. Sterling: New Delhi.
4) Das, S.K. (2013). The Civil Services in India. Oxford University Press: New Delhi.
5) Jain, R.B. (1994). Aspects of Personnel Administration. IIPA. New Delhi

Additional Readings:

1) Flippo, E. B. (1976).Principles of Personnel Management. McGraw- Hill Companies.
2) Stahi, O. G. (1971). Public Personnel Administration. Harper Row.
3) Davar, R.S. (1976).Personnel Administration and Industrial relations in India. Vikas Publishing House: New Delhi

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4) Goal, S. L and Rajneesh, S. (2008) Public Personnel Administration, Deep & Deep Publishers: New Delhi.
5) Maheshwari, S.R. (2008) Public Administration in India: The Higher Civil Services. Oxford University Press: New Delhi.

SEMESTER VI

PAPER	**:**	**MIC-8**	**Full Marks : 100**
TITLE OF THE PAPER	**:**	**Administrative Law**	**ESE : 70**
CREDIT	**:**	**3**	**CIA : 30**

Course Objectives

CO1: To understand conceptual framework of Administrative Law.

CO2: To make the students aware of the growing importance of Administrative Law and its relation with Constitutional Law.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CLO1: Comprehend the conceptual framework of Administrative Law.

CLO2: Illustrate the advantages and disadvantages of Delegated Legislation and Administrative Adjunction.

MIC8: Administrative Law		
Unit	**Topics to be covered**	**No. of Lectures**
1	Meaning, Scope and Growing importance of Administrative Law; Relation between Administrative Law and Constitutional Law	10
2	A. Administrative Adjudication : Its Meaning, Growth, Merits and Demerits B. Delegated Legislation: Its Meaning, Growth, Merits and Demerits	10
3	Public Interest Litigation(PIL), Lok Adalat, Right to Information	10
	Total Lectures	30
	Tutorial	10
	TOTAL	40

Suggested Readings:

6. Katariya, S. (2020). Prashasnik Sidhant evam Prabandh National Publishing House New Delhi.
7. Saha, T. K. (2001). Administrative Law. Kanishka Publishers Distributors: New Delhi
8. Kesari, U.P.D. (2016) Prashasnik Vidhi , Central Law Publications, Allahabad.
9. Jain, M.P. and Jain, S.N. (2017). Principles of Administrative Law. Dokumen Publishers, New Delhi.
10. Awasthi and Maheshwari. (2020). Prashasnik Siddhant. Laxmi Narain Agarwal:Agra

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Additional Readings:

6. Pound, R. (1942) Administrative Law: Its Growth, Procedure and Significance. University of Pittsburgh: U.S.A.
7. Kagzi, M.C.J. and Madhusudan (2014) Indian Administrative Law. Universal Law Publishing Company Pvt. Limited.
8. Peter, C. (2018) Administrative Law. (ed.) Routledge: USA
9. Sengupta, S. P. (2019). Administrative Law. Kamal Law House Publications, Kolkata.
10. Craig, P. P.(2021). Administrative Law. Sweet Maxwell.

SEMESTER VII

PAPER	:	MIC-9	Full Marks : 100
TITLE OF THE PAPER	:	Financial Administration	ESE : 70
CREDIT	:	4	CIA : 30

Course Objectives

CO1: To help students learn the intricacies of Financial Administration.

CO2: To help students understand the process of Budget-making in India.

Course Learning Outcomes

After the completion of the course, the students will be able to:

CO1: Understand the meaning and importance of Financial Administration and how it is conducted.

CO2: Understand the budget process in India.

MIC9: Financial Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Financial Administration: Definition, Nature, Scope and Significance	10
2	A. Financial Relationship between Centre and States B. Role and Functions: Finance Ministry and Finance Commission	10
3	Budget: Principles of Sound Budget, Preparation and passing of Budget in Indian Parliament	10
4	A. Audit and Account System: Principles of Auditing and Accounting B. Powers, Functions and Role of CAG in India	10
	Total Lectures	40
	Tutorial	10
	TOTAL	50

Suggested Readings:

9. Mahajan, A.P. and Mahajan, S.K. Financial Administration in India, PHI Learning.
10. Thavaraj, M.J.K. (2014), Financial Administration in India, Sultan Chand & Sons, New Delhi.

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11. Goel, S.L. (2002), "Public Financial Administration", Deep and Deep Publication, New Delhi.
12. D.M. Mithani,(2018), "International Economics", Himalaya Publishing House
13. Panda, S. (1989). Financial Administration and Personnel Management in Public Enterprises, Mittal Publications, New Delhi.
14. Lall, G.S. (1976). Public Finance and Financial Administation in India, Kapoor Publishers, New Delhi.
15. Panda, S. (1989). Financial Administration and Personnel Management in Public Enterprises, Mittal Publications, New Delhi.
16. Mukherjee, S.S. (1979). Indian Public Finance and Financial Administration, Surjeet Publications, Delhi.

Additional Readings:

6. Sahib Singh & Swinder Singh, Public Personnel and Financial Administration, New Academic Publishing Co., Jalandhar.
7. Mahajan, S.K. (2014), Financial Administration in India, PHI Learning.
8. Sundram, K.P.M. (1979). Indian Public Finance and Financial Administration, Delhi.
9. Gupta, B.N. (1970). Indian Federal Financial and Budgetary Policy, Allahabad.
10. Bhargava, R.N. (1962). Indian Public Finances. George Allen & Unwin Ltd.

SEMESTER VIII

PAPER	:	**MIC-10**	**Full Marks**	**: 100**
TITLE OF THE PAPER	:	**Emerging Trends in Public Administration**	**ESE**	**: 70**
CREDIT	:	**4**	**CIA**	**: 30**

Course Objectives

CO1: To introduce, to the students, the emerging trends and techniques in Public Administration.
CO2: To acquaint the students with the role of different stakeholders in administration.
CO3: To impart an understanding of the modern paradigms of administration.

Course Learning Outcomes

After the completion of the course, the students will be able to:
CLO1: Explain the different emerging trends and techniques in Public Administration.
CLO2: Analyze the role of different stakeholders in administration.
CLO3: Examine the applicability of modern paradigms of administration towards enhanced governance.

MJC 15: Emerging Trends in Public Administration		
Unit	**Topics to be covered**	**No. of Lectures**
1	Changing Dimensions of Public Administration: A. New Techniques of Administration B. Participatory Governance	10
2	Human Resource Management, Management Information Systems, ICT in Administration	10
3	Public Private Partnership, Civil Society Empowerment, Role of Media in Governance	10
4	Gender Studies, Tribal Welfare, Labour Welfare, Climate Change and Environmental Governance	10
	Total Lectures	40
	Tutorial	10
	TOTAL	50

Suggested Readings:

1) Kumar, Rajesh, Ambedkar, S.N. and Meena, J.S. (2020). Emerging Trend in Public Administration: Engagement in Policy and Service Delivery for the 21st Century. New Delhi: Akhand Publishing House.

2) Mohapatra, A.K., Sinha, A.K. and Pandey, A. (2016). Emerging Trends in Management and Public Policy. Regal Publications.

3) Bhattacharya, Mohit (2018). New Horizons of Public Administration. New Delhi: Jawahar Publishers.

4) Chakrabarti, B. and Chanda, P.(2017). Bhartiya Prashasan: Vikas evam Padyati. Sage Publications, New Delhi.

5) Maheshwari, R. Bharatiya Prashasan, Orient Blackswan

6) Singh, Hoshiyar and Singh, P. (2011). Bhartiya Prashasan. Pearson, Chennai.

Additional Readings:

1) Dubhashi, P.R.(1995) Recent Trends in Public Administration. Kaveri Books.

2) O'Toole.Barry J. (2000).Public Policy and Administration: Recent Trends and Future Prospects. Royal Institute of Public Administration.

3) McLaughlin, K; Ferlie, E. ; Osborne, S. P. (2005). New Public Management: Current Trends and Future Prospects, Routledge, London.

4) Narain, L. (2014).Public Enterprise Management and Privatization, S. Chand, New Delhi.

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:-**Regarding submission of proposed course uniform syllabus of Psychology for 3rd to 8th Semester of 4 - Year undergraduate Course, (CBSC)**

Reference:- Letter No.-BSU (UGC) -02/2023- 1457/ GS(I) dated 14.09.2023

Sir,

In compliance with your letter no. BSU(UGC)- 02/2023-1457/ GS(I) dated-14.09.2023 followed by above mentioned letter no, we are submitting the proposed course syllabus of **Psychology** for 3rd to 8th semester of the 4 - year under graduate course (CBCS) as per UGC regulations.

Yours sincerely,

1. **Dr. Ram Dhyan Rai**
   Professor, Ex-Dean & Head
   J. P University Chapra

2. **Prof. Arun Kumar Singh**
   Head, University Dept. of Psychology
   Patliputra University, Patna

3. **Prof. Abha Rani Sinha**
   Head, University Dept. of Psychology
   BRA Bihar University, Muzaffarpur

4. **Prof. Md. Intekhabur Rahman**
   Head, University Dept. of Psychology
   BNMU, Madhepura

5. **Prof. Kirti**
   Head, Dept. of Psychology
   College of Commerce, Arts & Science
   Patliputra University, Patna

6. **Dr. Sheo Sagar Prasad**
   Head, University Dept. of Psychology
   Patna University, Patna

7. **Dr. Sangita Sinha**
   Associate Professor & Ex-Head
   PG Dept of Psychology
   VKSU, Ara

8. **Dr. Meenakshi**
   Assistant Professor
   PG Dept of Psychology
   MU, Bodhgaya

9. **Mr. Amrit Kumar Jha**
   Assistant Professor
   University Dept. of Psychology
   LNMU, Darbhanga

Syllabus

for

Bachelor of Arts Programme

in

Psychology

under

Choice Based Credit System (CBCS)

(2023-24 onwards)

of

NEW EDUCATION POLICY

(NEP-2020)

SEMESTER- III

MJC-3: Developmental Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Get the knowledge of human developmental processes along with theoretical perspectives.
- **CO2:** Understand the concept and process of human development across the life span.
- **CO3:** Know the various domains of human development.
- **CO4:** Comprehend the role of biological, social, psychological, environmental, physical and adjustment related factors in developmental process.

MJC-3 : Developmental Psychology(T) (5 credits) Full Marks: 100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Life Span Perspective : Nature, Importance and Principles 1.2 Stages of Development 1.3 Methods of Study: Longitudinal, Observation and Cross-sectional studies 1.4 Factors in Development: Biogenic, Psychogenic and Sociogenic	10
2	**Cognitive and Language Development** 2.1 Cognitive development; Meaning, Theories of cognitive development: Piaget's theory, Vygotsky's theory 2.2 Language development: Meaning, Chomsky's theory 2.3 Moral development: Meaning, Kohlberg's theory, Giligan's Theory	14
3	**Physical and Emotional Development** 3.1 Physical development – Influence of physical development on behaviour 3.2 Emotional Development – Nature of emotional behaviour, Factors affecting emotionality 3.3 Erikson's theory of Psycho-social development	16
4	**Social Context of Development** 4.1 Family 4.2 School 4.3 Peers 4.4 Media	10
	Total	50

Suggested Readings:

1. Berk, L.E. (2003). Child Development. New Delhi: Pearson Education.
2. Hurlock, E.B. (1981). Child Development (6th Ed.). McGraw Hill Co., Auckland.
3. Shrimali, S.S. (2005). Child Development. New Delhi, Pearson Education.
4. Stanrock, J.W. (2015). Child Development: An Introduction (12th Ed.), McGraw Hill Co
5. Srivastava, A.K. (1997). Child Development: An Indian Perspective. New Delhi.

SEMESTER- III

MIC-3: Developmental Psychology

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Get the knowledge of human developmental processes along with theoretical perspectives.
CO2: Understand the concept and process of human development across the life span.
CO3: Know the various domains of human development.
CO4: Comprehend the role of biological, social, psychological, environmental, physical and adjustment related factors in developmental process.

MIC-3 : Developmental Psychology (3 credits) Full Marks -100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Life Span Perspective : Nature and Importance 1.2 Stages of Development	8
2	**Cognitive Development** 2.1 Cognitive development : Meaning, Theories of cognitive development: Piaget's theory, Vygotsky's theory	10
3	**Physical and Emotional Development** 3.1 Physical development – Influence of physical development on behaviour 3.2 Emotional development – Nature of emotional behaviour, Factors affecting emotionality	12
	Total	30

Suggested Readings:

1 Berk, L.E. (2003). Child Development. New Delhi: Pearson Education.
2 Hurlock, E.B. (1981). Child Development (6th Ed.). McGraw Hill Co., Auckland.
3 Shrimali, S.S. (2005). Child Development. New Delhi, Pearson Education.
4 Stanrock, J.W. (2015). Child Development: An Introduction (12th Ed.), McGraw Hill Co
5 Srivastava, A.K. (1997). Child Development: An Indian Perspective. New Delhi.

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SEMESTER- III

MJC-4: Introduction to Statistics

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand the nature of psychological variables and measurement scale.
- **CO2:** Comprehend the processes of describing and reporting statistical data.
- **CO3:** Draw inferences and conclusions for hypothesis testing using appropriate statistical analysis.
- **CO4:** Know basic statistical methods and their utility for empirical research.
- **CO5:** Learn to use suitable statistical techniques for interpreting research findings.

MJC-4 : Introduction to Statistics (T) (3 credit) Full Marks-100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Fundamentals of statistics** 1.1 Meaning and Uses of statistics in Psychology 1.2 Variables: Meaning and Types – Categorical and Continuous 1.3 Levels of Measurement- Nominal, Ordinal, Interval, and Ratio	5
2	**Introduction to Descriptive Statistics** 2.1 Basic concept of Descriptive and Inferential statistics 2.2 Frequency distribution of data and Graphic presentation: Histogram, Polygon and Ogive 2.3 Measures of Central tendency: Calculation of Mean, Median and Mode 2.4 Measures of Variability: Calculation of Range, QD, AD, SD	10
3	**Correlation and t-test** 3.1 Correlation: Concept; Types of correlation 3.2 Calculation of Correlation: Product moment and Rank difference method 3.3 Calculation of t-test: Independent group and Correlated group	10
4	**Chi square** 4.1 Chi square: Concept 4.2 Computation of Chi square: Equal distribution hypothesis and Independent hypothesis	5
	Total	30

Suggested Readings:

1. Coolican, H. (2004). Research methods and Statistics in Psychology. Hoddes Arnold. London.
2. Edwards, A.L. (1985). Experimental designs in psychological research. Harper & Row. NewYork.
3. Garrett, H. E (2005). Statistics in psychology and Education. Paragon international Publishers. New Delhi
4. Singh R., Shyam R & Gupta, L. (2015) Fundamental Statistics for Social Sciences. IntellectualFoundation. Happy Book Dept., Delhi Road, Model Town, Rohtak.
5. Mishra, G.C. (2018). Applications of Statistics in Psychology and Education, Kalyani Publisher,New Delhi.
6. Singh, A.K. (2012). Manovigyan, Samajshastra tatha Shiksha mein Saankhyiki. Novelty & Company.

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MJC-4 (P) : Introduction to Statistics (P) (Practical: 1 credit) Full Marks-100 ESE-70 CIA-30	
Practical:- Based on course MJC-4(T) Introduction to Statistics, students are required to carry on statistical analysis from the following by taking data given in the book's exercises or any hypothetical data. 1. Computation of t-test 2. Computation of Chi-Square 3. Computation of Correlation	**Practicum Hours** 3 3 4
TOTAL	10

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SEMESTER- III

MIC-4 : Introduction to Statistics

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the nature of psychological variables and measurement scale.
CO2: Comprehend the processes of describing and reporting statistical data.
CO3: Draw inferences and conclusions for hypothesis testing using appropriate statistical analysis.
CO4: Know basic statistical methods and their utility for empirical research.
CO5: Learn to use suitable statistical techniques for interpreting research findings.

MIC-4: Introduction to Statistics (Theory : 3 credit) Full Marks :100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Fundamentals of statistics** 1.1 Meaning and significance of Statistics in Psychology 1.2 Levels of Measurement- Nominal, Ordinal, Interval, and Ratio	8
2	**Introduction to Descriptive Statistics** 2.1 Basic concept of Descriptive and Inferential statistics 2.2 Frequency distribution of data and Graphic presentation: Histogram, Bar Diagram 2.3 Measures of Central tendency: Calculation of Mean, Median and Mode	12
3	**Correlation and t-test** 3.1 Correlation: Concept; Types of correlation 3.2 Calculation of Correlation: Rank difference method	10
	Total	30

Suggested Readings:

1. Coolican, H. (2004). Research methods and Statistics in Psychology. Hoddes Arnold. London.
2. Edwards, A.L. (1985). Experimental designs in psychological research. Harper & Row. NewYork.
3. Garrett, H. E (2005). Statistics in psychology and Education. Paragon international Publishers. New Delhi
4. Singh R., Shyam R & Gupta, L. (2015) Fundamental Statistics for Social Sciences. IntellectualFoundation. Happy Book Dept., Delhi Road, Model Town, Rohtak.
5. Mishra, G.C. (2018). Applications of Statistics in Psychology and Education, Kalyani Publisher,New Delhi.
6. Singh, A.K. (2012). Manovigyan, Samajshastra tatha Shiksha mein Saankhyiki. Novelty & Company.

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SEMESTER – IV

MJC-5: Abnormal Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand the concept of abnormality.
- **CO2:** Gain knowledge of the different theories and models of abnormal behaviour
- **CO3:** Understand Stress, Phobias, Obsessive Compulsive disorders, Depression, Schizophrenia.
- **CO4:** Learn about developmental disorders.

MJC-5 : Abnormal Psychology (T) (5 credit) Full Marks: 100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Definition and Nature of Abnormal behaviour 1.2 Historical Background of Abnormal Psychology 1.3 Criteria of abnormality 1.4 Classification System : DSM -5 and ICD-11	12
2	**Models of Abnormality** 2.1 Biological model 2.2 Psychodynamic model 2.3 Behaviourist model 2.4 Cognitive model	12
3	**Psychological Disorders** 3.1 Phobias – Symptoms, Types and Causes 3.2 Obsessive Compulsive Disorders – Clinical picture, and Causes 3.3 Depressive Disorders – Clinical picture and Causes 3.4 Schizophrenia – Clinical picture, Types and Causes	14
4	**Neurodevelopmental Disorders** 4.1 Intellectual Disorders- Meaning, Types, and Causes 4.2 Autism Spectrum Disorder- Meaning, Clinical picture and Causes 4.3 Attention Deficit / Hyperactivity Disorder- Meaning, Clinical picture and Causes	12
	Total	50

Suggested Readings:

1. Carson, R. C., Butcher, J. N., Mineka, S. & Hooley, J. M. Abnormal Psychology, Pearson.
2. Wilson, Nathan, O'leary Clark. Abnormal Psychology: An integrating Perspective. Allyn and Bacon.
3. Sarason, I. G & Sarason, B. R. (2005). Abnormal Psychology: The Problem of MaladaptiveBehavior, Eleventh Ed. Prentice Hall.
4. Comer, R. J. Abnormal Psychology: Princeton University, Worth Publishers, New York.
5. Lauren B. Alloy, Neil S. Jacobson, Joan Acocella Abnormal Psychology: Current Perspectives, McGraw Hill.
6. Singh A.K. Manovikriti Manovigyan, Motilal Books.
7. Coleman, JC. Abnormal Psychology and Modern Life, Scott Foreman and Company.

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SEMESTER – IV

MIC-5: Abnormal Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand the concept of abnormality.
- **CO2:** Gain knowledge of the different theories and models of abnormal behaviour
- **CO3:** Understand Stress, Phobias, Obsessive Compulsive disorders, Depression, Schizophrenia.
- **CO4:** Learn about developmental disorders.

MIC-5 : Abnormal Psychology (3 credit) Full Marks:100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Definition and Nature of Abnormal behaviour 1.2 Historical Background of Abnormal Psychology 1.3 Criteria of abnormality	10
2	**Models of Abnormality** 2.1 Biological model 2.2 Psychodynamic model	10
3	**Psychological Disorders** 3.1 Phobias – Symptoms, Types and Causes 3.2 Depressive Disorders – Clinical picture and Causes	10
	Total	30

Suggested Readings:

1. Carson, R. C., Butcher, J. N.,Mineka, S. & Hooley, J. M. Abnormal Psychology, Pearson.
2. Wilson, Nathan, O'leary Clark. Abnormal Psychology: An integrating Perspective. Allyn and Bacon.
3. Sarason, I. G & . Sarason, B. R. (2005). Abnormal Psychology: The Problem of MaladaptiveBehavior, Eleventh Ed. Prentice Hall.
4. Singh A.K. Manovikriti Manovigyan, Motilal Books.
5. Coleman, JC, Abnormal Psychology and Modern Life, Scott Foreman and Company.

SEMESTER – IV

MJC-6: Educational Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand the area of educational psychology.
- **CO2:** Appreciate the need and importance of study of educational psychology in understanding, analyzing and interpreting the development of learner.
- **CO3:** Get knowledge on effective teaching and classroom management.
- **CO4:** Comprehend the applications of psychology in the area of education.

MIC-6 : Educational Psychology (T) (3 credit) Full Marks: 100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning, Nature, Scope, Aims and Relevance of Educational Psychology 1.2 Perspectives of Educational Psychology: Behaviouristic, Observational learning, Cognitive and Humanistic	6
2	**Individual Differences and Educational Implications** 2.1 Individual Differences: Meaning and Significance 2.2 Dimensions of Individual Differences – Psychological and Physical 2.3 Educational Implications of Individual Differences	7
3	**Effective Teaching and Classroom Management** 3.1 Characteristics of Effective Teachers 3.2 Teaching Methods & Issues Related to Technological Advances 3.3 Classroom Management 3.4 Creativity: Meaning, Characteristics of Creative Person, Role of School in Promoting Creativity in Children	7
4	**Exceptionality and Special Education** 4.1 Exceptional Children: Meaning and Characteristics 4.2 Importance and Need to Educate Exceptional Children 4.3 Responsibilities of Teachers towards Learners with Special Needs 4.4 Types of Exceptional Children: Gifted, Academically Backward , Learning Disabled and Children with behavioral problems	10
	Total	30

Suggested Readings:

1. Lahey R.B. Graham J. E., (2000) An Introduction to Educational Psychology, 6th Ed.,Tata McGraw Hill Publishers, New Delhi.
2. Mangal, S.K. (2017). Essentials of Educational Psychology, PHI Leaning, Delhi
3. Santrock, John, W. (2010) Educational Psychology, Inwin Professional Publishers, Delhi.
4. Woolfolk A & Woolfolk H A (2008) Educational Psychology, Pearson, New Delhi.
5. Agarwal, J.C. (2014). Essentials of Educational Psychology. Vikas Publishing House.
6. Suleman, Md, Shiksha Manovigyaan.
7. Singh, A.K. Shiksha Manovigyaan. Bharti Bhawan.

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MJC-6 : Educational Psychology (P) (2 credit) Full Marks-100	ESE-70 CIA-30
Practical:- Based on course **MJC-6** (T) Educational Psychology, students are required to conduct any TWO tests in examination related to the following – 1. Achievement motivation 2. Interest test 3. Classroom climate 4. Academic stress 5. Curiosity	**Practicum Hours** 4 4 4 4 4
TOTAL	**20**

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SEMESTER – IV

MIC-6: Educational Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand the area of educational psychology.
- **CO2:** Appreciate the need and importance of study of educational psychology in understanding, analyzing and interpreting the development of learner.
- **CO3:** Get knowledge on effective teaching and classroom management.
- **CO4:** Comprehend the applications of psychology in the area of education.

MIC-6 : Educational Psychology (3 credit) Full Marks :100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning and Nature of Educational Psychology	6
2	**Individual Differences and Educational Implications** 2.1 Individual Differences: Meaning and Significance 2.2 Dimensions of Individual Differences – Psychological and Physical	12
3	**Effective Teaching and Classroom Management** 3.1 Characteristics of effective teachers 3.2 Teaching methods related to technological advances 3.3 Classroom management 3.4 Creativity: Meaning and role of school in promoting creativity in children	12
	Total	30

Suggested Readings:

1. Mangal, S.K. (2017). Essentials of Educational Psychology, PHI Leaning, Delhi
2. Santrock, John, W. (2010) Educational Psychology, Inwin Professional Publishers, Delhi.
3. Woolfolk A & Woolfolk H A (2008) Educational Psychology, Pearson, New Delhi.
4. Suleman, Md, Shichha Manovigyaan
5. Singh, A.K. Shiksha Manovigyaan. Bharti Bhawan.

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SEMESTER – IV

MJC-7: Systems of Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand the developmental history of psychology.
- **CO2:** Understand the structuralist and behaviorist schools of Psychology.
- **CO3:** Become acquainted with the role of Freud and Neo-Freudians in the development of Psychology.
- **CO4:** Acquaint with the third force of psychology.

MJC-7 : Systems of Psychology (T) (3 Credit)		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Structuralism and Functionalism** 1.1 Structuralism: Contribution of Wundt and Titchner 1.2 Functionalism: Contribution of Chicago and Columbia school	4
2	**Behaviourism** 2.1 Contribution of Watson as a founder of Behaviourism 2.2 Theories of Pavlov, Skinner and Bandura	4
3	**Psychoanalysis and Gestalt Psychology** 3.1 Contributions of Freud as founder of Psychoanalysis 3.2 Neo-Freudians: Carl Gustav Jung, Alfred Adler 3.3 Contributions of Wertheimer in founding Gestalt Psychology	10
4	**Humanistic Psychology** 4.1 Major features of Humanistic Psychology 4.2 Contribution of Rogers and Maslow	4
5	**Existential Psychology** 5.1 Basic Tenets of Existential Psychology 5.2 Contribution of Rollo May and Viktor Frankl	4
6	**Indian Psychology** 5.1 Introduction to Indian Psychology 5.2 Eminent Indian Psychologists	4
	Total	30

Suggest Readings:

1. Boring, E.G. (1969). A History of Experimental Psychology. New Delhi: Times of India Press.
2. Murphy, G. & Kovach, J.K. (1972). Historical Introduction to Modern Psychology. London:Routledge and Kegan Paul.
3. Marx, M.H. & Hillix, W.A.C. (1987). Systems and Theories in Psychology. New York: McGrawHill.
4. Woodworth, R.S. & Sheehan, M.R. (1970). Contemporary Schools of Psychology. London:Methuen & Co.
5. Cornelissen, R.M.M, Mishra, G., & Varma, S. (2013). Foundations of Indian Psychology. Pearson.
6. Singh, A. K. Manovigyaan kay Sampradaya evam Itihaas. Motilal International.
7. Pathak R.P.(2009).Bhartiya Manovigyan. Radha Publication.
8. Hall, C., S., Lindzey, G. & Campbell, J.B., Theories of personality. Wiley India.

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MJC-7 : Systems of Psychology (P) (2 credit) Full Marks-100	ESE-70 CIA-30
Practical:- Based on course **MJC**-7 (T) Systems of Psychology, students are required to conduct any TWO tests in examination related to the following – Prepared detail biography of the following psychologists: 1. Wundt 2. Freud 3. Rogers 4. Bandura	**Practicum Hours** 5 5 5 5
TOTAL	**20**

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SEMESTER – IV

MIC-7: Systems of Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Understand the developmental history of psychology.
- **CO2:** Understand the structuralist and behaviorist schools of Psychology.
- **CO3:** Become acquainted with the role of Freud and Neo-Freudians in the development of Psychology.
- **CO4:** Acquaint with the third force of psychology.

MIC-7 : Systems of Psychology (3 Credits) (Full Marks :100)		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Structuralism and Functionalism** 1.1 Structuralism and Functionalism: Contribution of Wundt ,Titchner and William James	8
2	**Behaviourism & Psychoanalysis** 2.1 Contributions of Watson , Skinner and Freud	10
3	**Humanistic Psychology & Indian Psychology** 3.1 Major features of Humanistic Psychology ,Contributions of Maslow 3.2 Eminent Indian Psychologists	12
	Total	30

Suggested Readings:

1. Boring, E.G. (1969). A History of Experimental Psychology. New Delhi: Times of India Press.
2. Marx, M.H. & Hillix, W.A.C. (1987). Systems and Theories in Psychology. New York: McGrawHill.
3. Woodworth, R.S. & Sheehan, M.R. (1970). Contemporary Schools of Psychology. London:Methuen & Co
4. Pathak R.P.(2009). Bhartiya Manovigyan. Radha Publication.
5. Singh, A. K. Manovigyaan kay Sampradaya evam Itihaas. Motilal International.
6. Pathak R.P.(2009).Bhartiya Manovigyan. Radha Publication.

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SEMESTER – V

MJC-8: Clinical Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Develop an understanding of the nature and historical perspectives of Clinical Psychology
- **CO2:** Gain knowledge of clinical assessment
- **CO3:** Understand the activities and roles of clinical Psychologists
- **CO4:** Apply the knowledge in clinical intervention

MJC-8: Clinical Psychology (T) (3 Credits) (Full Marks :100)		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning, Nature and Historical perspectives 1.2 Distinction between Clinical and Abnormal psychology 1.3 Education and Training of Clinical Psychologists	6
2	**Role / Functions of Clinical Psychologists in different Fields** 2.1 Mental hospital 2.2 Child guidance clinic 2.3 School 2.4 Industry	8
3	**Clinical Assessment & Techniques** 3.1 Nature and Purpose of clinical assessment 3.2 Techniques: Observation; Case history; Interviews 3.3 Objective measures – MMPI 3.4 Projective Measures – Sentence Completion Test	8
4	**Clinical Intervention** 4.1 Psychotherapy: Meaning and Goal 4.2 Psychotherapeutic techniques: Freudian Psychoanalytical therapy 4.3 Behavior therapy: Cognitive behavioral therapy	8
	Total	30

Suggested Readings :

1 Hecker, J. E. & Thorpe, G.L. (2005) Introduction to Clinical Psychology: Science, Practice andEthics. Pearson Education, Delhi.
2 Korchin, S.J. (1976) Modern Clinical Psychology: Principles of Intervention in the Clinic andCommunity, Basic Books Publishers New York.
3 Phares, E.J. (1981) Clinical Psychology: Concepts, Methods & Profession, Dorsey Press.
4 Coleman, J.C. Abnormal Psychology and Modern Life. Scott Foresman.
5 Md. Sulemaan: Aadhunik Naidanik Manovigyan
6 Singh A.K: Uchchatar Naidanik Manovigyan. Motilal International.

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MJC- 8 : Clinical Psychology (P) (2 credit) Full Marks-100	ESE-70 CIA-30
Practical:- Based on course MJC-8 (T) Clinical Psychology, students are required to conduct any TWO Tests in examination related to the following:– 1. Personality 2. Emotion 3. Anxiety 4. Adjustment	**Practicum Hours** **5** **5** **5** **5**
Total	**20**

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SEMESTER – V

MIC-8: Clinical Psychology

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop an understanding of the nature and historical perspectives of Clinical Psychology
CO2: Gain knowledge of clinical assessment
CO3: Understand the activities and roles of clinical Psychologists
CO4: Apply the knowledge in clinical intervention

MIC-8 : Clinical Psychology (3 credits) Full Marks = 100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning, Nature and Historical perspectives 1.2 Distinction between Clinical and Abnormal psychology	10
2	**Role / Functions of Clinical Psychologists in different Fields** 2.1 Mental hospital 2.2 Child guidance clinic 2.3 School 2.4 Industry	10
3	**Clinical Assessment & Techniques** 3.1 Nature and purpose of clinical assessment 3.2 Techniques: Observation; Case history; Interviews 3.3 Objective and Projective Tests	10
	Total	30

Suggested Readings:

1 Singh A.K: Uchchatar Naidanik Manovigyan Motilal International Hecker, J. E. & Thorpe, G.L. (2005) Introduction to Clinical Psychology: Science, Practice and Ethics. Pearson Education, Delhi.
2 Korchin, S.J. (1976) Modern Clinical Psychology: Principles of Intervention in the Clinic andCommunity .Basic Books Publishers New York.
3 Phares, E.J. (1981) Clinical Psychology: Concepts, Methods & Profession, Dorsey Press
4 Pomerantz, A.M. (2008). Clinical Psychology. Sage Publication: New Delhi.
5 Md. Sulemaan: Aadhunik Naidanik Manovigyan
7 Singh A.K: Uchchatar Naidanik Manovigyan. Motilal International.

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SEMESTER – V

MJC-9: Guidance and Counselling Psychology

Course Outcomes

After the completion of the course, the student will have to:

CO1: Gain understanding of relevant concepts of counselling and guidance.
CO2: Develop understanding of counselling process and guidance.
CO3: Acquaint with the different areas of counselling and guidance.
CO4: Learn the counselling skills and undertake counselling and plan psychosocial interventions.

MJC-9 : Counselling and Guidance Psychology (T) (3 credit) Full Marks-100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Guidance and Counselling** 1.1 Counselling: Meaning and Nature, Objectives, Types of counselling 1.2 Guidance: Meaning and Nature, Objectives, Types of guidance 1.3 Difference between Guidance and Counselling; Counselling and Psychotherapy	8
2	**Process of Guidance and Counselling** 2.1 Principle of guidance and counselling 2.2 Process of counselling 2.3 Factors influencing the guidance and counselling 2.4 Barriers in guidance and counselling process	8
3	**Guidance and Conselling Specialities** 3.1 Individual and Group Counselling 3.2 Educational and Career Counselling 3.3 Family Counselling	8
4	**Guidance and Counselling as a Profession** 4.1 Skills for Guidance and Counselling 4.2 Ethical issues in Guidance and Counselling	6
	Total	30

Reading List:

1 Gladding, S. E. (2018). Counseling: A Comprehensive Profession, Eight Ed. Pearson
2 Gibson, R.L and Mitchell M.H (2006): Introduction to counselling and guidance, Sixth Ed., Pearson,New Delhi.
3 Jones and Smith: Theories of Counselling and Psychotherapy, Sage
4 Gerald Corey: Counselling and Psychotherapy, Cengage.
5 Kottler, J.A., & Shepard, D.S. (2008). Counseling. Theories and Practices. New Delhi: Brooks/ColeCengage Learning.
6 Narayan Rao: Counselling Psychology, Tata McGraw Hill.
7 Singh A.K., Nirdeshan evam Paramarshan. Motilal Books

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MJC- 9 : Counselling and Guidance Psychology (P) (2 credits)	ESE-70 CIA-30
Practical:- Based on course MJC-8 (T) Clinical Psychology, students are required to conduct any TWO Tests in examination related to the following:– 1. Case history and suggested counseling 2. EPQ 3. WAT	**Practicum Hours** **10** **5** **5**
Total	**20**

SEMESTER – V

MIC-9: Guidance and Counselling Psychology

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Gain understanding of relevant concepts of counselling and guidance.
CO2: Develop understanding of counselling process and guidance.
CO3: Acquaint with the different areas of counselling and guidance.

	MIC-9 : Counselling and Guidance Psychology (4 credits) Full Marks :100	ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction to Guidance and Counselling** 1.1 Counselling: Meaning, Nature and Objectives 1.2 Guidance: Meaning, Nature and Objectives 1.3 Difference between guidance and counselling	14
2	**Process of Guidance and Counselling** 2.1 Principle of guidance and counselling 2.2 Process of counselling 2.3 Factors influencing guidance and counselling	14
3	**Guidance and Conselling Specialities** 3.1 Individual and Group Counselling 3.2 Educational and Career Counselling	12
	Total	40

Reading List:

1 Gibson, R.L and Mitchell M.H (2006): Introduction to counselling and guidance, 6th ed., Pearson,New Delhi.
2 Jones and Smith: Theories of Counselling and Psychotherapy, Sage publications
3 Kottler, J.A., & Shepard, D.S. (2008). Counseling. Theories and Practices. New Delhi: Brooks/ColeCengage Learning.
4 Narayan Rao: Counselling Psychology, Tata McGraw Hill.
5 Singh A.K., Nirdeshan evam Paramarshan. Motilal Books

SEMESTER – VI

MJC-10: Cognitive Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Become familiar with the area of study and its various approaches and methods.
- **CO2:** Understand various models and theories of domains of cognitive psychology.
- **CO3:** Comprehend the concept of attention and perception and their associated concepts.
- **CO4:** Get acquainted with the concept of memory, forgetting, thinking, decision making and problem solving.

MJC-10 : Cognitive Psychology (T) (4 credits) Full Marks-100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning and Nature of Cognitive Psychology; 1.2 Approaches to Cognitive Psychology 1.3 Methods of study- Behavioural and Physiological	8
2	**Perception and Attention** 2.1 Attention: Meaning, Types of attention, Factors influencing selective attention 2.2 Perception: Meaning, Gestalt's theory of perception, Factors of perception 2.3 Depth perception: Monocular and Binocular cues	10
3	**Thinking, Problem Solving and Creativity** 3.1 Thinking: Meaning, Nature and Tools of thinking; Convergent and Divergent thinking 3.2 Problem solving: Meaning and Strategies – Trial and error, Algorithms, Heuristics and Insight; Barriers to problem solving 3.3 Reasoning: Meaning; Inductive and Deductive reasoning 3.4 Creativity: Nature; Stages, Factors of creativity	12
4	**Memory and Forgetting** 4.1 Memory: Meaning, Reconstructive nature of memory 4.2 Types of memory-LTM, STM, Implicit and Explicit 4.3 Models of memory: Information processing model, Levels of processing, Parallel distributed processing 4.4 Forgetting: Meaning, Nature and Factors	10
	Total	40

Suggested Readings :-

1. Smith, E.E. & Kosslyn, S. M. (2015). Cognitive Psychology : Mind and Brain. First Ed. Pearson
2. Solso, R. L., MacLin, O.H., Kimberly M.K. (2014) Cognitive Psychology. Pearson
3. Sternberg, R.J. (2007). Cognitive Psychology. Delhi: Thomson
4. Ciccarelli, S.K.; & Meyer, G.E. (2007). Psychology (South Asian Edition). India: PearsonEducation Inc.
5. Baron, R.A. & Misra, G. (2014). Psychology, Indian Subcontinent Edition, 5th Edition, PearsonEducation
6. Singh, A.K. Sangyanatmak Manovigyan. Motilal Pulishing House.

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SEMESTER – VI

MIC-10: Cognitive Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Become familiar with the area of study and its various approaches and methods.
- **CO2:** Understand various models and theories of domains of cognitive psychology.
- **CO3:** Comprehend the concept of attention and perception and their associated concepts.
- **CO4:** Get acquainted with the concept of memory, forgetting, thinking, decision making and problem solving.

	MIC-10 : Cognitive Psychology (T) (4 credits) Full Marks:100	ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning and Nature of Cognitive Psychology 1.2 Approaches to Cognitive Psychology	12
2	**Perception and Attention** 2.1 Attention: Meaning, Types of attention 2.2 Perception: Meaning, Gestalt's theory of perception, Factors of perception	14
4	**Memory and Forgetting** 3.1 Memory: Meaning, Reconstructive nature of memory 3.2 Types of memory-LTM,STM, Implicit and Explicit 3.3 Forgetting: Meaning, Nature and Factors	14
	Total	40

Suggested Readings :-

1. Sternberg, R.J. (2007). Cognitive Psychology. Delhi: Thomson
2. Ciccarelli, S.K.; & Meyer, G.E. (2007). Psychology (South Asian Edition). India: PearsonEducation Inc.
3. Baron, R.A. & Misra, G. (2014). Psychology, Indian Subcontinent Edition, 5th Edition, PearsonEducation
4. Singh, A.K. Sangyanatmak Manovigyan. Motilal Pulishing House.

SEMESTER – VI

MJC-11: Biopsychology

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Explore the biological basis of experience and behaviour.
CO2: Develop an appreciation of the neurobiological basis of psychological function and dysfunction.
CO3: Develop an understanding of Nervous systems and its relation to behaviour and cognition.
CO4: Comprehend the role of endocrine systems in behaviour and cognition

MJC11 : Biopsychology (T) (Theory : 3 credits)		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning and Nature of Bio-psychology 1.2 Historical development 1.3 Related areas: Neuropsychology, Physiological psychology, Genetics: Genes and Chromosomes	6
2	**Neurons** 2.1 Neuron: Structure, Types 2.2 Electrical activities of neurons – Resting, Graded and Action potential 2.3 Synapse and Synaptic transmission 2.3 Neurotransmitters	8
3	**Nervous System** 3.1 Central nervous system: Structure and functions 3.2 Lobes and functions 3.3 Peripheral nervous system: Structure and functions 3.4 Methods of studying brain functions	8
4	**Endocrine Systems** 4.1 Functions and abnormalities of major glands: Thyroid, Adrenal, Gonads, Pituitary, Pancreas and Pineal 4.2 Effect of Hormones on behaviour. 4.3 Biopsychology of Emotions and Stress	8
	TOTAL	30

Suggested Readings :

1. Carlson, N. R. (2009) Foundations of Physiological Psychology, 6th Edition. PearsonEducation, New Delhi
2. Kalat, J.W. (2012). Biological psychology. CA: Wardsworth/Thomson Learning.
3. Kolb, B. &Whinshaw, I.Q. (2013). An introduction to brain and behavior. New York: WorthPublishers.
4. Pinel, J.P.J. (2013). Biopsychology. NJ: Pearson Education Inc.
5. Singh, A.K. Neurovigyaan ke Mooltatv. Motilal Banarsi Das
6. Toates, F. (2011). Biological psychology. NJ: Pearson Education Inc.

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MJC11 : Biopsychology (P) (2 credit)	ESE-70 CIA-30
Practical :- Based on course CC11(T) Bio-Psychology, students are required to draw a detailed diagram with the functions of the – 1. Neuron 2. Central Nervous System (CNS) 3. Endocrine System	**Practicum Hours** 4 8 8
TOTAL	20

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SEMESTER – VI

MJC-12 : Health Psychology

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Know the basics of health and illness from various perspectives
CO2: Understand the behavioral and psychological correlates of health and illness.
CO3: Understand the significant aspects of coping and importance of health enhancing behaviour
CO4: Describe behavioral factors that influence health and illness

MJC-12 : Health Psychology (T) ESE-70 (Theory : 3 credits) CIA-30 Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Nature and aims of Health Psychology 1.2 Components of health: Physical, Social, Emotional and Cognitive aspects 1.3 Model of health and illness: Medical and Bio-psycho-social models, Stress – Diathesis model	6
2	**Behavior and Health** 2.1 Role of Behavioural factors in disease and disorders 2.2 Models and Approaches to health behavior change – Cognitive, Behavioural and Social Engineering approaches 2.3 Changing health habits	8
3	**Stress and Coping** 3.1 Stress: Meaning and Nature, Causes, Effects of stress on Physical and Mental health 3.2 Theories of stress - Cannon, Selye, Lazarus 3.3 Coping strategies 3.4 Stress management	8
4	**Promoting Wellness and Health** 4.1 Promoting wellness: Primary and Secondary prevention 4.2 Health-enhancing behaviours: Exercise, Nutrition, Yoga, Meditation	8
	TOTAL	30

Suggested Readings:

1. Allen, F. (2011). Health psychology and behaviour. Tata McGraw Hill Edition.
2. Dimatteo, M. R., & Martin L. R. (2011). Health psychology. India: Dorling Kindersley.
3. Misra,G. (1999). Stress and Health. New Delhi: Concept
4. Taylor, S.E. (2006). Health Psychology (6th Ed.). New York: Tata McGraw Hill
5. Singh A K (2022). Swasthya Manovigyan : Ek Parichay, Motilal Books.

MJC-12 : Health Psychology (Practical) ESE-70 (2 credit) CIA-30	**Practicum Hours**
Practical :- Based on course MJC-12 (P) Health Psychology, students are required to conduct any TWO Tests in the examination from the following –	
1. Coping strategies	5
2. Mental Health	5
3. Subjective well-being	5
4. Stress	5
Total	20

SEMESTER – VII

MJC-13 : Introduction to Psychometrics

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Get knowledge about the psychological tests their main characteristics and major types of psychological tests and assessment
- **CO2:** Gain understanding of item analysis procedures in the context of psychological testing.
- **CO3:** Learn to carry on the reliability and validity of psychological tests.
- **CO4:** Learn various types of norms and their interpretation
- **CO5:** Demonstrate the ability to develop and use psychological tests in practical life.

MJC-13 : Introduction to Psychometrics(T) (Theory : 3 credits) Full Marks-100		ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning, Nature and Characteristics of Psychological Test 1.2 Purpose of Psychological assessment 1.3 Types of Psychological Test 1.4 Ethical issues in testing 1.5 Limitations of psychological testing	8
2	**Test Construction and Standardization** 2.1 Steps in psychological test construction 2.2 Items writing: Concept and guidelines 2.3 Item Analysis – Meaning, Purpose, Item difficulty, Item discrimination	8
3	**Psychometric Characteristics of Test** 3.1 Reliability: Concept and Types of reliability 3.2 Validity: Concept and Types of validity 3.3 Norms	8
4	**Application of Psychological Testing in different Fields** 4.1 Education 4.2 Counselling and guidance 4.3 Clinical setting 4.4 Organization	6
	Total	30

Reading List :

1. Anastasi, A (2016). Psychological Testing, Pearson Education India
2. Chadha, N. K. (2009). Applied Psychometry. SAGE Publications India Pvt Ltd
3. R. Michael, Furr (2017). Psychometrics: An Introduction. SAGE Publications, Inc
4. Rust, J. & Golombok, S (2014). Modern Psychometrics: The Science of PsychologicalAssessment. Routledge
5. Singh, A.K. Manovigyan Samaj Shastra tatha Siksha me Sodh Vidhiyan. Motilal Banarsi Das, Publishing House

MJC13 : Introduction to Psychometrics (P) (Practical: 2 credits) Full Marks-100	ESE-70 CIA-30
Practical:- Students should administer any ONE psychological test on the sample of N=20 and analyze the derived data to draw a conclusion.	**Practicum Hours** 20
Total	20 Hrs

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SEMESTER – VII

MJC-15: Criminal Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Get adequate understanding of the area of criminal behaviour.
- **CO2:** Understand various theoretical perspectives on criminal behaviour.
- **CO3:** Explain psychological perspectives of crimes in our society.
- **CO4:** Familiarize themselves with the behaviour of criminals, its causes and remedies.
- **CO5:** Acquaint with various applications of criminal psychology.

	MJC-15: Criminal Psychology (T) ESE-70 **(Theory : 4 credit) CIA-30** **Full Marks-100**	
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Definition, Nature and Scope of Criminal psychology. 1.2 Theories of Crime: Psychological theories, Social theories	8
2	**Psychological Disorders and Criminal Behaviour** 2.1 Juvenile offender: Criminogenic factors in child and adult anti-social behaviour 2.2 Mental illness and Crime 2.3 Sex offenders: Nature of rape; Theories: Feminist theory, Social learning and Evolutionary theory 2.4 Influence of Media on criminal behaviour	12
3	**Violent Criminal Behaviour and Drug related Crime** 3.1 Psychology of Aggression and Violence 3.2 Terrorism 3.3 Drugs and Crime 3.4 Cyber Crimes – Meaning; Cyber related crime - Bullying, Harassment, Stalking	10
4	**Profiling, Prevention and Rehabilitation** 4.1 Psychological profiling and personality of criminals 4.2 Future predictions of criminal behaviour on the basis of criminal profiling 4.3 Prevention of crime 4.4 Delinquent Rehabilitation, Effective intervention for serious juvenile offenders 4.5 Cognitive and Behavioural Rehabilitation of criminals.	10
	Total	40

Suggested Readings:

1. Bachhav, Aun M. (2012). Criminal Psychology. Chandralok Prakashan, Kanpur.
2. Samenow, S,.E. (2014).Inside the Criminal Mind. Third Ed., Crown.
3. Bharati, A. (2012). Studies on Criminological Psychology. G.S. Rawat for Ceber TechPublications. New Delhi- 110 002
4. Howitt, D.(2002) (5th ed.). Introduction to Forensic and criminal psychology. England: Pearson.
5. Verma, L. (1990). The management of children with emotional and behavioral difficulties.London: Routledge.

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	MJC15 : Criminal Psychology (2 credits) Full Marks-100	ESE-70 CIA-30
Unit	**Topics to be covered**	**No. of hours**
	Practical :- Based on course MJC-15 (P) Criminal Psychology, students are required to conduct any TWO Tests in examination – 1. Guilt Quotient of your subject Using Chattopadhyay's "What is your guilt quotient?" scale or any other suitable scale 2. Domestic Violence: To assess attitude of people towards domestic violence. 3. Media and violence 4. Cyber bullying	5 5 5 5
	TOTAL	20

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SEMESTER – VIII

MJC-16 : Industrial / Organizational Psychology

Course Outcomes

After the completion of the course, the student will be able to:

- **CO1:** Develop an awareness of the concepts related to industrial / organizational psychology
- **CO2:** Understand the work motivation and its theories
- **CO3:** Comprehend the concept of work group and team and issues of conflict in organization
- **CO4:** Get knowledge the leadership and communication system in the organization
- **CO5:** Demonstrate the ability to develop connectivity between concepts and practices of organizations.

MJC-16 : Industrial / Organizational Psychology(T) ESE-70 (Theory : 4 credit) CIA-30 Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	**Introduction** 1.1 Meaning and Nature, History (Classical and Neo-classical era) 1.2 Organizational behaviour: Challenges in the Indian setting	8
2	**Motivation and Job satisfaction** 2.1 Motivation: Meaning and Nature, 2.2 Theories of work motivation: Maslow, Herzberg, McClelland, Equity & Expectancy theory 2.3 Job satisfaction: Meaning, factors and impact	10
3	**Group Behaviour and conflict Management** 3.1 Group: Meaning, types and functions 3.2 Team: Meaning, importance, making an effective team 3.3 Conflict Management: Nature, Types of conflict, Conflict management.	12
4	**Leadership and Communication** 4.1 Leadership: Meaning; Theories – Trait theory, Behavioural theory, Transactional and Transformational Leadership model 4.2 Communication: Meaning, Process, Types, Barriers of effective communication 4.3 Organizational Change: Nature ,Causes and resistance to change	10
	Total	40

Suggested Readings:-

1. Blum, M.L. & Naylor (1984). Industrial Psychology. Delhi: CBS Publishers
2. Chadha, N.K. (2007). Organizational Behavior. Galgotia Publishers: New Delhi.
3. Luthans, F. (2009). Organizational behavior. New Delhi: McGraw Hill.
4. Pareek, U. (2010). Understanding organizational behaviour. Oxford: Oxford University Press
5. Robbins , S., Judge, T.A., & Sanghi, S. (2009). Organizational behaviour (13th Ed.). New Delhi:Pearson Education.
6. Riggio, R. E. (2003) Introduction to Industrial/Organizational Psychology (4th Ed.). New Jersey:Prentice-Hall .

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To,

The Principal Secretary,

Raj Bhawan, Bihar, Patna

Sub:- Submission of proposed course structure and uniform Syllabus of Persian for 3rd to 8thsemester of Four year Undergraduate program for the universities of Bihar.

Ref:- Letter no. BSU(UGC)-02/2023-1457/GS(I) dated 14/09/2023.

Sir,

In compliance with letter no. BSU(UGC)-02/2023-1457/GS(I) dated 14/09/2023, we are here by submitting the proposed course structure and syllabus of Persian for 3rd to 8thsemester of Four year Undergraduate program for the universities of Bihar, as per the UGC Regulations.

Enclosures as above:-

Thanking You

Yours Faithfully,

21/09/2023
9430251307

Prof. MdAbidHussain
Professor
Department of Persian
Patna University

21.9.23
9430222372

Prof. Md. Rizwanullah
Professor
Department of Persian
H.D Jain College Ara

21.9.23
Mob. 9931432566

Dr. Mahmoodul Hassan Ansari
Assistant Professor
Z.A. Islamia P.G College, Siwan (JPU)

21.9.23
Mob. 9431056963

Dr. Zafrullah
Assistant Professor
Z.A. Islamia P.G College, Siwan
(J.P.U)

21/9/23

Dr. Md. JamshedAlam
Assistant Professor (HoD/IC)
MMHA&PU, Patna
9868091720

21.9.2023
Mob - 9953624492

Dr. Tarique Ata
Assistant Professor
MMHA&PU, Patna

21/09/23

Dr. Md. JawaidAkhtar
Assistant Professor
MMHA&PU, Patna
~~Darbhanga~~
Mob: 7310067644

21/09/23

Dr. Razi Haidar
Assistant Professor
M.R.M College, L.N.M.U.
Darbhanga.

21/09/23

Dr. Abdus Salam Jeelani
Assistant Professor
Millat College,
L.N.M.U. Darbhanga
9319042997

21.09.2023

Dr. FaizanHaidar
Assistant Professor
C.M. College, L.N.M.U. Darbhanga

Under Graduate (Hons.) in Persian
Under Choice Based Credit System (CBCS) Programme

- **Applicability:**

The regulation shall apply to the Under Graduate (Hons) in Persian programme from the session 2023 – 27

- **Minimum Eligibility for admission:**

The candidate who wishes to take admission Under Graduate Programme he must pass Intermediate or equivalent examination from a recognized Board/ Institution including Madrasa Board of all states with minimum 45 percentage marks for General / OBCcandidates and 40% for SC/ST candidates or equivalent grade.

- **Programme Objectives:**
  - The main purpose to design Under Graduate Programme in Persian is to develop the skills of the students in translation and interpretation and to make him proficient communicators in Persian to communicate our culture and literary values of our Country to Persian Speaking Countries.
  - To train the students for discharging duties as a language experts in both public and private sectors and deciphering Persian sources. As we know that a large number of land records, documents, farmans related to and art and culture sources of medieval period of India are still in Persian language.
  - After Completing the Course the learners will be enable to perform their duties and responsibilities as a good citizen and they will contribute their knowledge to the building of society and nation. Besides this, Persian literature has the richest sources of art and culture, humanism and Sufism which are available in different libraries of the country till day. So, the present course is thus designed to inculcate a student with a full sense of human values and academic excellence which will be beneficial to the society and the nation. It is fact that promoting of humanism can only be achieved through an intensive approach of literature.
  - The curriculum focuses on the lingual as well as moral and ethical aspects of Persian literature that would help an individual to cope up with the challenges of the contemporary world.

- **Programme Outcomes:**

One of the prime objectives of the course is to introduce the learner about the universality of Persian literature in dealing with global issues like degradation of human values and challenges of materialism etc. Hence the course primarily stresses on the comprehensive aspect of literature.

Therefore, utmost care has been taken in choosing the prescribed text which has both lingual and didactic features. A greater comprehension of language would result in a greater depth in perception and appreciation of literature, culture and human progress. Moreover, the course takes into its gamut the employability factors of the

students and hence offers courses in modern language teachings that would surely help them to serve in the archives, museums, national libraries and Persian departments of the universities. The programme would also train the students to work on the Persian manuscripts which are preserved in hundreds and thousands of precious copies in the oriental libraries in the World.

- **Specific Programme Outcomes:**

The Department has a distinct vision for Under Graduate programme offered by it in Persian language and literature. It aims to develop in the learners to understand Persian Language in a wide range of contexts. After the completion of Under Graduate in Persian a student will be capable enough to discharge his responsibilities as a language expert/linguist/interpreter in various ministries of the government of India viz. the Ministry of External Affairs, the Ministry of Culture, the Ministry of Defense etc. Moreover, a student completing this course can work in various archives, museums, oriental libraries, Ministry of Information and Broadcasting in his capacity as a language expert or as an epigraphist etc. The course is also directed to train an individual for jobs in private sectors. The didactic aspect of the classical literature would take care of the moral and ethical side of an individual in the discharging of his responsibilities in a transparent way. While modern language and literature course is designed to help an individual in his pursuit of a job in private sectors Overall, the course guides to the employability skill of an individual in various spheres.

Course Structure

Under Graduate Programme (Hons) in Persian under CBCS

Sl. No.	Semester	Type of Course	Credit	Name of Course	Marks
1.	III	**MJC – 3**	5	Classical Persian Prose	100 (30+70)
2.	III	**MJC – 4**	4	Cleassical Persian Poetry	100 (30+70)
3.	IV	**MJC – 5**	5	Modern Persian Prose	100 (30+70)
4.	IV	**MJC – 6**	5	Modern Persian Poetry	100 (30+70)
5.	IV	**MJC – 7**	5	Overwiev of Persian Writings in India	100 (30+70)
6.	V	**MJC – 8**	5	Persian Ghazal	100 (30+70)
7.	V	**MJC – 9**	5	History of Persian Literature during Ghaznavid and Seljuqid period	100 (30+70)
8.	VI	**MJC – 10**	4	Persian Masnavi	100 (30+70)
9.	VI	**MJC – 11**	5	History of Persian Literature from Mongol to Qajar	100 (30+70)
10.	VI	**MJC – 12**	5	Essay, Composition, Translation and Interpertation	100 (30+70)
11.	VII	**MJC – 13**	5	Persian Sufi Literature	100 (30+70)
12.	VII	**MJC – 14**	5	History of Persian Literature during Mughal Period	100 (30+70)
13.	VII	**MJC – 15**	6	Rhetoric and Prosody (Balaghat –o– Arooz)	100 (30+70)

Total Credits: **64**

Semester – III

Persian

MJC–3 (Classical Persian Prose) **Credits: 5**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:
CO 1: gain knowledge of classical Persian languages.
CO 2: become familiar with the style of reading classical texts.
CO 3: get acquainted with Persian ethical books and authors.
CO 4: get information of life and works of mentioned prose writers.
CO 5: develop the ability to critically evaluate the text.

Classical Persian Prose		
Unit	**Topics to be covered**	**No. of Lectures**
1	انتخاب از جہانگیر نامہ: خواجہ ابوالحسن (متن: روز یکشنبہ غریب واقعہ ای روی نمود۔۔۔)	8
2	انتخاب از مرزبان نامہ: مرزبان بن رستم (متن: داستان آہو و موش و عقاب)	8
3	انتخاب از قابوس نامہ: عنصر المعالی کیکاؤس (متن: ۱۔ در شناختن حق پدر و مادر ۲۔ در مہمانی کردن و مہمانی شدن	8
4	نظامی عروضی سمرقندی: انتخاب از چہار مقالہ (مقالہ اول: حکایت اسکافی؛ مقالہ دوم: در چگونگی شاعر و شعر او)	8
5	شیخ سعدی شیرازی: انتخاب از گلستان (ہشت حکایت از باب اول)	8
6	احوال و آثار نثر نویسان ذکر شدہ	10
	TOTAL	**50**

Essential/Recommended Reading:

- جہانگیر نامہ — خواجہ ابوالحسن
- مرزبان نامہ — مرزبان بن رستم
- قابوس نامہ — عنصر المعالی کیکاؤس
- چہار مقالہ — نظامی عروضی سمرقندی
- گلستان — شیخ سعدی شیرازی

Suggested Readings:

- نصاب جدید فارسی، حکیم ذکی احمد خان، جید پریس، بلی ماران، دہلی 1990
- چہار مقالہ، ڈاکٹر ذیشان حیدر، ایجوکیشنل پبلشنگ ہاؤس، نئی دہلی، 2016
- تاریخ ادبیات ایران، رضازادہ شفق، ندوۃ المصنفین، دہلی، 1979
- نقش ہای رنگ رنگ، گروہ زبان و ادبیات فارسی، دانش گاہ اسلامی علی گرہ، 2005

Semester – III

Persian

MJC–4 (Classical Persian Poetry) **Credits: 4**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:
CO 1: gain knowledge of Classical Persian poetry.
CO 2: able to read and comprehend the Classical Persian poetry.
CO 3: get acquainted with Persian literary forms and terminologies.
CO 4: get knowledge of the life and works of mentioned classical Persian poets.
CO 5: produce the ability to review and critically analyze pieces of classical Persian poetry.

Classical Persian Poetry		
Unit	**Topics to be covered**	**No. of Lectures**
1	حافظ: غزل های زیر: ۱۔ صلاح کار کجا و من خراب کجا؛ ۲۔ اگر آن ترک شیرازی بہ دست آرد دل مارا؛ ۳۔ صبا بہ لطف بگو آن غزال رعنارا؛ ۴۔ مطلب طاعت و پیمان درست از من مست؛ ۵۔ حاصل کارگہ کون و مکان این ہمہ نیست	7
2	امیر خسرو: غزل های زیر: ۱۔ ابر می بارد و من می شوم از یار جدا؛ ۲۔ دلم در عاشقی آوارہ شد آوارہ تربادا؛ ۳۔ سری دارم کہ سامان نیست اورا؛ ۴۔ زلف تو، بہ ہر آب مصفا نتوان شست؛ ۵۔ جان زتن بردی و در جانی ہنوز	7
3	قاآنی: قصیدہ در مدح امام علی بن موسیٰ الرضا	7
4	عرفی: قصیدہ در وصف کشمیر	7
5	خیام: رباعی های زیر: اول دہ رباعی از نصاب جدید فارسی	7
6	مولانا روم: نالہ نی از مثنوی معنوی (۲۵ ابیات)	5
	TOTAL	**40**

Essential/Recommended Reading:

- دیوان حافظ — حافظ شیرازی
- کلیات امیر خسرو — امیر خسرو
- کلیات میرزا حبیب قاآنی — میرزا حبیب قاآنی
- قصائد عرفی — عرفی شیرازی
- رباعیات خیام — گردآوری: فیضان حیدر
- مثنوی معنوی — مولانا روم

Suggested Readings:

- شعر باستاں، ڈاکٹر انوار الحسن، الجامعۃ الاشرفیہ، مبارک پور، 2007
- نصاب جدید فارسی، حکیم ذکی احمد خان، جید پریس، بلی ماران، دہلی 1990
- تاریخ ادبیات ایران، رضازادہ شفق، ندوۃ المصنفین، دہلی، 1979

Semester – IV

Persian

MJC–5 (Modern Persian Prose) **Credits: 5**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:
CO 1: gain information about Modern trends in Persian prose.
CO 2: become familiar with the style of Modern Persian prose text.
CO 3: get acquaint with Persian Novel and Short Stories.
CO 4: get information about the life and works of mentioned modern prose writers.
CO 5: develop the ability to evaluate the texts of modern Persian prose.

Modern Persian Prose		
Unit	**Topics to be covered**	**No. of Lectures**
1	اوضاع اجتماعی و سیاسی ایران در اواخر قرن ونزدهم میلادی و اوایل قرن بیستم میلادی	8
2	صادق ہدایت: بوف کور (رمان)	8
3	محمد حجازی: خودکشی	8
4	سعید نفیسی: خانہ پدری (داستان کوتاہ)	8
5	جمال زادہ: فارسی شکر است (داستان کوتاہ)	8
6	احوال و آثار نثر نویسان ذکر شدہ	10
	TOTAL	**50**

Essential Reading:

- بوف کور صادق ہدایت
- خودکشی محمد حجازی
- سعید نفیسی: خانہ پدری (داستان کوتاہ)
- جمال زادہ: فارسی شکر است (داستان کوتاہ)
- نیا ایرانی ادب ظہورالدین احمد

Suggested Readings:

- نصاب جدید فارسی، حکیم ذکی احمد خان، جید پریس، بلی ماران، دہلی، سنہ ندارد
- ادبیات معاصر فارسی، اسماعیل حاکمی، دانش گاہ پیام نور، 1398ش

Semester – IV

Persian

MJC–6 (Modern Persian Poetry) **Credits: 5**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:
CO 1: gain information about Modern Persian poetry.
CO 2: become familiar with the style of modern Persian poetry.
CO 3: get acquaint with Modern Persian literary forms.
CO 4: get information about the life and works of mentioned modern poets.
CO 5: develop the ability to evaluate the modern Persian poetry

Modern Persian Poetry		
Unit	**Topics to be covered**	**No. of Lectures**
1	فرق بین شعر کلاسیک وجدید وبنیان گذاران شعر جدید فارسی	8
2	ملک الشعرا بہار مشہدی: سکوت شب، دختر فقیر، دل مادر	8
3	ابوالقاسم لاہوتی: بہ دختر ایران، ایران من	8
4	پروین اعتصامی: زن در ایران، اشک یتیم، ای رنجبر	8
5	نیما یوشیج: ای شب، چشمہ کوچک	8
6	شہریار: پروانہ در آتش، مکتب حافظ	10
	TOTAL	**50**

Essential/Recommended Reading:

- ادبیات معاصر فارسی — اسماعیل حاکمی
- دیوان اشعار ملک الشعرا بہار — محمد تقی بہار
- دیوان لاہوتی — ابوالقاسم لاہوتی
- دیوان اشعار پروین اعتصامی — (با مقدمہ) ملک الشعرا بہار
- کلیات اشعار نیما یوشیج — نیما یوشیج
- دیوان اشعار شہریار — شہریار

Suggested Readings:

- چشم انداز شعر معاصر ایران، مہدی زرقانی، نشر ثالث، 2015
- نیا ایرانی ادب، ظہور الدین احمد، یونیورسٹی بک ایجنسی، لاہور، سنہ ندارد
- ادبیات معاصر فارسی، اسماعیل حاکمی، دانش گاہ پیام نور، 1398ش
- جدید فارسی شاعری، منیب الرحمٰن، ادارہ علوم اسلامیہ، علی گڑھ، 1959
- ادبیات جدید ایران، ڈاکٹر منظر امام، کتابستان، چندوارہ، مظفر پور، 1996

Semester – IV

Persian

MJC–7 (Overview of Persian writings in India) **Credits: 5**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:

CO 1: gain information of the origin and development of Persian language and literature in India.
CO 2: become familiar with the style of Persian prose and poetry writing in India.
CO 3: be familiar with the life and works of mentioned writers & poets and their writing style.
CO 4: develop the ability to evaluate the works of Indian prose and poetry writers.
CO 5: be able to identify contributions of Indian Knowledge System in Persian Studies

Overview of Persian writings in India		
Unit	**Topics to be covered**	**No. of Lectures**
1	آغاز و پیشرفت زبان و ادبیات فارسی در ہند	8
2	احوال و آثار شاعران زیر: مسعود سعد سلمان، امیر خسرو، حسن سجزی، شیخ جمالی	8
3	احوال و آثار شاعران زیر: عبد القادر بیدل، میرزا غالب، علامہ اقبال	8
4	احوال و آثار نثر نویسان زیر: ابو الفضل، عبد القادر بدایونی، چندر بھان برہمن	8
5	تذکرہ نویسی فارسی در ہند لباب الالباب از محمد عوفی، عرفات العاشقین از تقی الدین احمد	8
6	فرہنگ نویسی فارسی در ہند برہان قاطع از محمد حسین برہان، سراج اللغات از سراج الدین علی خان آرزو	10
	TOTAL	**50**

Essential/Recommended Reading:

- نگاہی بہ تاریخ ادب فارسی در ہند — دکتر توفیق ھ۔ سبحانی
- نقش ہای رنگ رنگ — دانش گاہ اسلامی علی گرہ
- تذکرہ نویسی فارسی در ہند و پاکستان — دکتر علی رضا نقوی
- تاریخ نویسی فارسی در ہند و پاکستان — دکتر آفتاب اصغر
- بزم تیموریہ — سید صباح الدین عبد الرحمن
- بزم مملوکیہ — سید صباح الدین عبد الرحمن
- مقدمہ دیوان قصائد جمالی — عبد السلام جیلانی

Semester – V

Persian

MJC–8 (Persian Ghazal) **Credits: 5**

Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:

CO 1: gain information about literal and terminological meaning of Ghazal.
CO 2: become familiar with the origin and development of Ghazal writing in Persian literature.
CO 3: become familiar with the style of reciting of Ghazal.
CO 4: get information about the life and works of famous Ghazal writers and their contributions.
CO 5: develop the ability to review on Ghazal of mentioned poets.

Persian Ghazal		
Unit	**Topics to be covered**	**No. of Lectures**
1	آغاز و پیش رفت غزل سرایی در ادبیات فارسی	8
	غزل‌های زیر از عراقی همدانی: ۱۔ نخستین باده کاندر جام کردند؛ ۲۔ تا کی از دست فراق تو ستم‌ها بینم؛ ۳۔ ترک من ای مه غلام روی تو	8
2	غزل‌های زیر از سعدی شیرازی: ۱۔ عشق ورزیدم و عقلم به ملامت برخاست؛ ۲۔ بیا که نوبت صلحست و دوستی و عنایت؛ ۳۔ شب عاشقان بی‌دل چه شبی دراز باشد	8
3	غزل‌های زیر از صائب تبریزی: ۱۔ رنگین‌تر از حناست بهار و خزان تو؛ ۲۔ پیش کسی که درد به درمان برابر است؛ ۳۔ نظر به زلف و رخ آن بهشت سیما کن	8
4	غزل‌های زیر از غالب دهلوی: ۱۔ به وادی که در آن خضر را عصا خفت است؛ ۲۔ خوش بود فارغ ز بند کفر و ایمان زیستن؛ ۳۔ دیده در آن که تا نهد دل به شمار دلبری	8
5	احوال و آثار شاعران ذکر شده	10
	TOTAL	**50**

Essential/Recommended Reading:

- دیوان فخر الدین عراقی — سعید نفیسی
- غزلیات سعدی — تدوین: دکتر خلیل خطیب رهبر
- دیوان صائب تبریزی — گردآوری: محمد قهرمان
- کلیات غالب فارسی — ایوان غالب، نئی دہلی

Suggested Readings:

- شعر باستاں، ڈاکٹر انوار الحسن، الجامعۃ الاشرفیہ، مبارک پور، 2007
- شعری، لالہ رام نرائن بنی مادھو، الہ آباد
- شعر العجم (جلد چہارم)، علامہ شبلی نعمانی، دار المصنفین، اعظم گڑھ 1991

Semester – V

Persian

MJC–9 (History of Persian Literature during Gaznavid & Seljuqid period) Credits: 5
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:

CO 1: gain information the origin and development of Persian language, literature and culture in Ghaznavid and Seljuqid period in Iran.

CO 2: get information about the contributions and Promotion of Ghaznavid and Seljuqid period in Persian literature.

CO 3: get familiar with well-known prose writers and poets of Ghaznavid and Seljuqid period and their contributions in Persian language, literature and culture.

CO 4: develop the ability to critically evaluate the works of poets and prose writers of Ghaznavid and Seljuqid period and their contributions.

History of Persian Literature during Gaznavid & Saljuquied period		
Unit	**Topics to be covered**	**No. of Lectures**
1	زبان و ادبیات فارسی در عهد غزنویان	8
2	زبان و ادبیات فارسی در عهد سلجوقیان	8
3	نثر نویسان مشهور در عهد غزنویان (بو علی سینا، ابوالفضل بیهقی)	8
4	شاعران مشهور در عهد غزنویان (فردوسی، عنصری، فرخی، منوچهری)	8
5	نثر نویسان مشهور در عهد سلجوقیان (نظام الملک طوسی، نصر الله منشی، امام غزالی)	8
	شاعران مشهور در عهد سلجوقیان (امیر معزی، سنائی، نظامی گنجوی)	10
	TOTAL	**50**

Essential/Recommended Reading:

- تاریخ ادبیات ایران — رضازاده شفق
- شعر العجم (جلد اول، دوم) — علامہ شبلی نعمانی
- نگاہی بہ تاریخ ادب فارسی در ہند — دکتر توفیق ھ۔ سبحانی
- فارسی ادب کی مختصر ترین تاریخ — ڈاکٹر محمد ریاض و صدیق شبلی
- صنادید عجم — مہدی حسین ناصری

Semester – VI

Persian

MJC–10 (Persian Masnavi) **Credits: 4**

Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:

CO 1: get information about literal and terminological meaning of Masnavi.
CO 2: become familiar with the origin and development of Masnavi writing in Persian literature.
CO 3: become familiar with the style of reciting of Masnavi.
CO 4: get information about the life and works of mentioned Masnavi writers and their contributions.
CO 4: develop the ability to review on Masnavi of mentioned poets.

Persian Masnavi		
Unit	**Topics to be covered**	**No. of Lectures**
1	آغاز و پیش رفت مثنوی سرایی در ادبیات فارسی	7
2	شاهنامه فردوسی: داستان رستم و سهراب، داستان بیژن و منیژه	7
3	مثنوی معنوی: حکایت مرد بقال و طوطی، موسیٰ و شبان	7
4	آشنایی مختصری از خمسه نظامی و امیر خسرو	7
5	مثنوی پس چه باید کرد ای اقوام مشرق از علامه اقبال	7
6	احوال و آثار شاعران ذکر شده	5
	TOTAL	**40**

Essential/Recommended Reading:

- تاریخ ادبیات ایران — رضازاده شفق
- شاهنامه — حکیم ابوالقاسم فردوسی
- مثنوی معنوی (دفتر اول) — مولانا جلال الدین رومی
- گزیده مخزن الاسرار — با مقدمه و شرح ابیات، دکتر بهروز ثروتیان
- خمسه خسرو — امیر خسرو
- پس چه باید کرد ای اقوام مشرق — علامه اقبال

Semester – VII

Persian

MJC–11 (History of Persian Literature from Mongol to Qajar) Credits: 5
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:

CO 1: gain information about development and promotion of Persian language, literature and culture in Mongol, Safavid, Qajaried period.

CO 2: get information about contribution of Mongol, Safavid, Qajaried period in Persian literature.

CO 3: get familiar with well-known prose writers and poets of Mongol, Safavid, Qajaried period period and their contribution in Persian language, literature and culture.

CO 4: develop the ability to critically evaluate important poets and prose writers of Mongol, Safavid, Qajaried period and their contributions.

History of Persian Literature from Mongol to Qajar		
Unit	**Topics to be covered**	**No. of Lectures**
1	استیلای مغول و تاثیر آن بر اوضاع سیاسی، فرهنگی و ادبی ایران	8
2	اوضاع سیاسی، فرهنگی و ادبی ایران از قرن سیز دهم تا قرن پانزدهم میلادی	8
3	اوضاع سیاسی، فرهنگی و ادبی ایران در عهد صفویان	8
4	اوضاع سیاسی، فرهنگی و ادبی ایران در عهد قاچاریان	8
5	ارزیابی مختصری شاعران عهد فوق (خواجو کرمانی، سلمان ساوجی، پروین اعتصامی، بهار مشهدی)	8
	ارزیابی مختصری نثر نویسان عهد فوق (نصیر الدین طوسی، ملا حسین واعظ کاشفی، حافظ ابرو، میر خواند)	10
	TOTAL	**50**

Essential/Recommended Reading:

- نگاهی به ادب فارسی هند — دکتر توفیق ھ۔ سبحانی
- تاریخ ادبیات ایران — رضازادہ شفق
- ایران صدیوں کے آئینہ میں — امرت لعل عشرت
- شعر العجم (جلد اول و دوم) — علامہ شبلی نعمانی
- فارسی ادب کی مختصر ترین تاریخ — ڈاکٹر محمد ریاض، صدیق شبلی

Semester - VI

Persian

MJC–12 (Essay, Composition, Translation and Interpretation) **Credits: 5**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:
CO 1: get information about basic principles and terminology of translation.
CO 2: develop the skills in translation from Persian into English or Urdu and vice-versa.
CO 3: able to translate the texts and documents.
CO 4: get information about the basic principles of paragraph and summary writing and summary writing.

Essay, Composition, Translation and Interpretation		
Unit	**Topics to be covered**	**No. of Lectures**
1	گفتگوی عمومی، گفتگوی روزانه، احترامات رسمی	8
2	گفتگوی مربوط به دانش کده، دانش گاه، زندگانی خوابگاهی	8
3	گفتگوی مربوط به مسافرت، خرید و فروش، فرودگاه، ایستگاه اتوبوس، ایستگاه راه آهن	8
4	ترجمه از فارسی به انگلیسی / اردو و به عکس	8
5	ترجمه شفاهی	8
6	اصول مبانی پاراگراف نویسی و خلاصه نویسی	10
	TOTAL	**50**

Essential/Recommended Reading:

- درآمدی به اصول و روش ترجمه کاظم لطفی پور ساعدی
- روش ترجمه شفاهی محمود علی محمدی
- فن ترجمه نگاری خلیق انجم
- ترجمه: روایت اور فن نثار احمد قریشی
- Essay on the Principles of Translation By: Alexander Fraser Tytler
- Let's Learn Persian, NCPUL, New Delhi

Semester - VI

Persian

MJC–13 (Persian Sufi Literature) **Credits: 5**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:
CO 1: gain information about literal and terminological meaning of Tasawwuf.
CO 2: get information about origin and development of Tasawwuf in Persian literature.
CO 3: get acquaint with reciting of Taswwuf texts.
CO 4: get brief information about terminology of tasawwuf (Talab, Ishq, Marefat, Isteghna, Tauhid, Hairat, Faqr – o- Fana etc.) and practices in daily life.
CO 5: develop the ability to review of Sufi literature.

Persian Sufi Literature		
Unit	**Topics to be covered**	**No. of Lectures**
1	آغاز و پیش رفت تصوف در ادبیات فارسی و سلسله های صوفیه	8
2	باب التصوف، باب سوم از کشف المحجوب	8
3	شریعت و طریقت از مکتوبات صدی (مکتوب شماره ۲۵)	8
4	معرفی اصطلاحات زیر: طلب، عشق، معرفت، استغنا، توحید، حیرت، فقر و فنا	8
5	انتخاب از منطق الطیر: در صفت وادی طلب، در سجده نکردن ابلیس	8
6	احوال و آثار صوفیان ذکر شده	10
	TOTAL	**50**

Essential/Recommended Reading:

- کشف المحجوب علی ہجویری
- منطق الطیر فرید الدین عطار
- تذکرۃ الاولیا فرید الدین عطار
- مکتوبات صدی شیخ شرف الدین یحییٰ منیری
- حضرت شیخ شرف الدین یحییٰ منیری کے غیر مطبوعہ مکاتیب کا تنقیدی ایڈیشن پروفیسر عید محمد انصاری
- مناقب الاصفیا مخدوم شعیب منیری، رام پور رضا لائبریری

Semester - VII

Persian

MJC–14 (History of Persian Literature during Mughal period) Credits: 5
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:

CO 1: gain information about origin and development of Persian language, literature and culture in Mughal period.

CO 2: get information to contributions of Jalaluddin Mohammad Akbar in Persian literature.

CO 3: get familiar with well-known prose writers and poets of Mughal period and their contributions in Persian language, literature and culture.

CO 4: develop the ability to critically evaluate the mentioned poets and prose writers of Mughal period and their contributions.

History of Persian Literature during Mughal period		
Unit	**Topics to be covered**	**No. of Lectures**
1	زبان و ادبیات فارسی در عهد تیموریان هند	8
2	جلال الدین محمد اکبر به عنوان پاسدار زبان و ادبیات فارسی	8
3	نثر نویسان مشهور در عهد تیموریان هند (عبد الرحیم خانخانان، عبد القادر بدایونی، ابو الفضل، جهانگیر)	8
4	شاعران مشهور در عهد تیموریان هند (غزالی مشهدی، ابو الفیض فیضی فیاضی، نظیری نیشاپوری، کلیم همدانی)	8
5	مطالعه انتقادی منتخب التواریخ (عبد القادر بدایونی)	8
6	مطالعه انتقادی سلیمان و بلقیس (فیضی فیاضی)	10
	TOTAL	**50**

Essential/Recommended Reading:

- نگاهی به تاریخ ادب فارسی در هند — دکتر توفیق هـ. سبحانی
- بزم تیموریه (هر سه مجلد) — سید صباح الدین عبد الرحمن
- منتخب التواریخ — عبد القادر بدایونی
- اکبر نامه — ابو الفضل، تدوین: سر سید احمد خان
- سلیمان و بلقیس — ابو الفیض فیضی
- تاریخ نویسی فارسی در هند و پاکستان — دکتر آفتاب اصغر

Semester - VII

Persian

MJC–15 (Rhetoric and Prosody (Balaghat-O-Arooz)) **Credits: 6**
Maximum Marks100 (30 for CIA + 70 for End Semester Exam)

Course Outcomes COs:

After completion of this course the learner will:
CO 1: get information about definition of Persian Rhetoric and Prosody in Persian literature.
CO 2: become familiar with the definition of Haqiqat, Majaz, Tashbih, Isteara.
CO 3: get information about Ishteqaq, Tazad, Tajnees, Talmih, Iham.
CO 4: become familiar with definition of Radeef, Qafiya, Harf-e- Rawi, Sabab, Watad and Fasela.
CO 5: get information about Bahr, Arkan-e- Bahr and Taqtee and able to write poetry.
CO 6: recognize recite and write the poetry and its properties.

Rhetoric and Prosody (Balaghat-O-Arooz)		
Unit	**Topics to be covered**	**No. of Lectures**
1	حقیقت، مجاز، تشبیہ، استعارہ، مجاز مرسل، کنایہ	10
2	اشتقاق، تضاد، تجنیس، تلمیح، ایہام، تجاہل عارفانہ، حسن تعلیل، مبالغہ،	10
3	ردیف، قافیہ، حرف روی، سبب، وتد، فاصلہ	10
4	بحر، ارکان بحر، بحور مفرد، سالم، محذوف / مکسور	10
5	تقطیع بحور سالم	10
6	تقطیع بحور مزاحف	10
	TOTAL	**60**

Essential/Recommended Reading:

- جدید علم البلاغت — عبدالمجید
- جدید علم العروض — عبدالمجید
- پیمانہ عروض — پروفیسر محمد عابد حسین
- نسیم البلاغت — جلال الدین احمد جعفری
- درس بلاغت — شمس الرحمن فاروقی
- شہکار عروض وبلاغت — انور مینائی

To,

The Principal Secretary to Governor
RajBhavan, Patna

Subject: **Regarding submission of proposed syllabus of Hindi (MJC Paper 03 to 13, 15 & 16/MIC Paper 03 to 10) Undergraduate level from Sem-03 to 08.**

Ref : **No. BSU(UGC) 02/2023-1457/GS(I), dated-14.09.2023 of Raj Bhavan, Patna.**

Sir,

In compliance to your letter No. **BSU(UGC) 02/2023-1457/GS(I), dated-14.09.2023** of Raj Bhavan, Patna. we are submitting syllabus of Hindi undergraduate from 3rd Sem to 8th Sem Major and Minor courses.

Yours Faithfully

21/09/2023
Prof. Tarun Kumar
Professor

21.09.2023
Prof. Ranvijay Kumar
Professor,
P.G. Dept. of Hindi

21/9/23
Prof. Kalanath Mishra
Professor

Prof. Diwakar Pandey
HOD, P.G. Dept. of Hindi
(Additional)

21.9.23
Dr. Bipin Bihari Sharan Diwedi
Prof. P.G. Dept. of Hindi

21.09.23
Prof. Anita
HOD, P.G. Dept. of Hindi
(Additional)

Prof. Bahadur Mishra
Hindi
(Additional)

21.9.23
Prof. Siddharth Shanker
Professor
(Additional)

21.9.2023
Prof. Ashok Kumar Sinha
(Additional)

21.09.23
Dr. Kalyan Kumar Jha
Professor
(Additional)

21/09/23
Prof. Mangala Rani
Professor
(Additional)

21.9.2023
A. P. Gupta
Associate Professor
(Additional)

21-09-2023
Prof. Usha Sinha
Professor & Head
(Additional)

21.09.23
Dr. Harish Chandra Shahi
Associate Professor
(Additional)

SEMESTER- III

MJC3 : हिन्दी साहित्य का इतिहास : आधुनिक काल

Course Objectives

इस पत्र के अध्ययन के उपरांत विद्यार्थी हिन्दी साहित्येतिहास के आधुनिक काल की पृष्ठभूमि, उसकी विविध प्रवृत्तियों को जान सकेंगे। साथ ही आधुनिक काल से संबंधित पद्य काव्यों एवं गद्य विधाओं की महत्वपूर्ण उपलब्धियों, भारतीय स्वतंत्रता आंदोलन में हिन्दी साहित्य के अवदानों से अवगत होंगे।

	MJC3 : हिन्दी साहित्य का इतिहास : आधुनिक काल (Theory: 05 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**	**L.T.P 5-1-0 Per Week**
1	• भारतेन्दु एवं द्विवेदी युग	06	
2	• छायावाद	04	
3	• प्रगतिवाद, उत्तर छायावाद, प्रयोगवाद, नई कविता, साठोत्तरी कविता	10	
4	• समकालीन कविता (1980 से आज तक)	10	
5	• स्वतंत्रता–पूर्व हिंदी गद्य एवं उसकी विविध विधाओं का विकास	10	
6	• स्वातंत्र्योत्तर हिंदी गद्य एवं उसकी विविध विधाओं का विकास	10	
	TOTAL	**50**	**L-(50)+T(10)=60**

Course Outcomes

इस पत्र के अध्ययन के उपरांत प्राप्त जानकारी से जहाँ विद्यार्थियों की समष्टिगत, राष्ट्रीय एवं सांस्कृतिक चेतना का विकास होगा, वहीं वे विविध प्रतियोगी परीक्षाओं में भी सफलता प्राप्त कर सकेंगे।

सहायक पुस्तकें :–

1. भारतेन्दु हरिश्चन्द्र और हिंदी नवजागरण की समस्याएँ : राम विलास शर्मा, राजकमल प्रकाशन, दिल्ली, 1984
2. साहित्य और इतिहास दृष्टि : मैनेजर पांडेय, पिपुल्स लिटरेसी, दिल्ली, 1981
3. हिंदी साहित्यः बीसवीं शताब्दी : नन्ददुलारे वाजपेयी, लोकभारती, इलाहाबाद, 1983
4. हिंदी साहित्य और संवेदना का विकास : रामस्वरूप चतुर्वेदी, लोक भारती, इलाहाबाद, 1986
5. कविता के नये प्रतिमान : नामवर सिंह, राजकमल प्रकाशन, दिल्ली, 1968

21.09.23 21.09.2023 21.9.23 विपिन द्विवेदी 21.9.23 21/09/23 21.9.23 21/09/23

6. विवेक के रंग : देवी शंकर अवस्थी, राजकमल प्रकाशन, दिल्ली, 1965
7. दलित साहित्य का सौंदर्य शास्त्र : ओम प्रकाश वाल्मीकि, राधाकृष्ण प्रकाशन, दिल्ली, 2001
8. आधुनिक साहित्य में दलित विमर्श : देवेन्द्र चौबे, ओरिएंटल ब्लैक श्वान, दिल्ली, 2009
9. आधुनिक हिन्दी कविता का इतिहास : नंदकिशोर नवल, राजकमल प्रकाशन
10. आधुनिक हिन्दी साहित्य का इतिहास : लक्ष्मी सागर वार्ष्णेय
11. इतिहास और आलोचना : नामवर सिंह
12. छायावाद : नामवर सिंह
13. आधुनिक हिंदी साहित्य की प्रवृत्तियाँ : नामवर सिंह
14. हिंदी का गद्य साहित्य : रामचन्द्र तिवारी
15. आधुनिक हिंदी साहित्य : विविध आयाम : रामचन्द्र तिवारी
16. गद्य साहित्य : विकास और विन्यास : रामस्वरूप चतुर्वेदी

SEMESTER- III

MJC-4 : आधुनिक हिन्दी कविता : छायावाद तक

Course Objectives

इस पत्र के अध्ययन से विद्यार्थी भारतेन्दु युग से लेकर छायावाद तक की हिन्दी कविता के विकास का पाठगत परिचय प्राप्त करने के साथ–साथ तत्युगीन महत्वपूर्ण कवियों के काव्यगत अवदान से परिचय हो सकेंगे। पाठगत विशलेषण के द्वारा विद्यार्थी कवियों की विभिन्न शैलियों से परिचित होंगे एवं उनमें आलोचनात्मक चेतना का विकास भी संभव होगा।

	MJC-4 : आधुनिक हिन्दी कविता : छायावाद तक (Theory: 04 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**	**L.T.P 4-1-0 Per Week**
1	• भारतेन्दु – भारत दुर्दशा • अयोध्या सिंह उपाध्याय 'हरिऔध' – प्रियप्रवास (प्रथम सर्ग, प्रारंभिक 11–20 छंद)	08	
2	• मैथिलीशरण गुप्त –'पंचवटी' खण्ड काव्य (प्रारंभिक 1–16 छंद) • रामनरेश त्रिपाठी – 'स्वप्न' खण्ड काव्य (पहला सर्ग, प्रारंभिक 1–12 छंद)	08	
3	• जय शंकर प्रसाद – 'लहर' –, बीती विभावरी जाग री, वे कुछ दिन कितने सुन्दर थे, जग की सजल कालिमा रजनी	06	
4	• सूर्यकांत त्रिपाठी निराला – 'राग–विराग' (सं.– राम विलास शर्मा) – बादल–राग : छटा भाग वर दे वीणावादिनी वर दे; राजे ने अपनी रखवाली की; शिशिर की शर्वरी	06	
5	• सुमित्रानंदन पंत – तारापथ – प्रथम रश्मि, मौन निमंत्रण, नौका विहार	06	
6	• महादेवी वर्मा – 'आधुनिक कवि' (हिंदी साहित्य सम्मेलन प्रयाग) – विरह का जलजात जीवन, मधुर–मधुर मेरे दीपक जल, मैं नीर भरी दुख की बदली	06	
	TOTAL	**40**	**L-(40)+T(10)=50**

21.09.23 — 21.09.2023 — 21.9.23 — 21.9.23 — 21/09/23 — 21.9.23 — 21-09-2023 — 21.9.23. — 3.

Course Outcomes

इस पत्र के अध्ययन से विद्यार्थी 1850 ई० से 1936 ई० तक भारत में होनेवाले राजनीतिक सामाजिक एवं सांस्कृतिक परिवर्तन को आत्मसात् का वर्तमान परिदृश्य का तुलनात्मक विश्लेषण करने की क्षमता विकसित कर सकेंगे। साथ ही भारतीय नवजागरण एवं राष्ट्रीय आंदोलन को संवेदना के धरातल पर ग्रहण कर विद्यार्थी विभिन्न प्रतियोगिता परीक्षाओं में इन तथ्यों को नये दृष्टिकोण के साथ प्रस्तुत करने में सफल होंगे।

सहायक पुस्तकें :–

1. आधुनिक हिंदी कविता का इतिहास : डॉ. नंद किशोर नवल, भारतीय ज्ञानपीठ, दिल्ली,
2. समकालीन काव्य यात्रा : डॉ. नंद किशोर नवल, भारतीय ज्ञानपीठ, दिल्ली
3. मैथिलीशरण : डॉ. नंद किशोर नवल, भारतीय ज्ञानपीठ, दिल्ली
4. छायावाद : डॉ. नामवर सिंह, राजकमल प्रकाशन, दिल्ली
5. निराला की साहित्य साधना (दूसरा भाग) : डॉ. रामविलास शर्मा, राजकमल प्रकाशन, दिल्ली
6. निराला कृति से साक्षात्कार : नन्द किशोर नवल, राजकमल प्रकाशन, दिल्ली
7. आधुनिक हिंदी कविता : डॉ. विश्वनाथ तिवारी, लोकभारती प्रकाशन, इलाहाबाद
8. महादेवी : इन्द्रनाथ मदान, राधाकृष्ण प्रकाशन, दिल्ली
9. जय शंकर प्रसाद : रमेश चन्द्र शाह, साहित्य अकादेमी, दिल्ली
10. निराला : परमानन्द श्रीवास्तव, साहित्य अकादेमी, दिल्ली
11. निराला की साहित्य–साधना (खंड 1, 2) : राम विलास शर्मा, राजकमल प्रकाशन, दिल्ली
12. मनीषा : दृष्टि और दिशाएँ– डॉ० सीताराम दीन, सेतु प्रकाशन, इलहाबाद

SEMESTER - IV

MJC - 5: छायावादोत्तर हिन्दी कविता

COURSE OBJECTIVES

छायावाद के बाद हिन्दी कविता के विकास को समझने के लिए उस दौर के महत्त्वपूर्ण कवियों के व्यक्तित्व एवं कृत्तित्व से अवगत होना जरूरी है। इस काल की कविता की प्रवृत्तियों एवं काव्यगत वैशिष्ट्य को समझने के पश्चात ही विधार्थियों की आलोचनात्मक क्षमता का विकास संभव होगा। कविता में हो रहे बदलाव को आत्मसात करने एवं अवगत होने के लिए इस पाठ की आवश्यकता होगी।

MJC - 5: छायावादोत्तर हिन्दी कविता (Theory: 05 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 5-1-0 Per Week**
1	**केदारनाथ अग्रवाल** – माँझी! न बजाओ वंशी, वह जन मारे नहीं मरेगा, यदि आयेगा डॉलर, खेत का दृश्य, चंद्रगहना से लौटती बेर, बसंती हवा	08	
2	**नागार्जुन** – घिन तो नहीं आती, बादल को घिरते देखा है; खुरदरे पैर, शासन की बंदूक; अकाल और उसके बाद; मैं तुम्हें अपना चुंबन दूँगा	08	
3	**रामधारी सिंह 'दिनकर'** – कुरुक्षेत्र (षष्ठ सर्ग)	08	
4	**माखनलाल चतुर्वेदी** – झरना; कैदी और कोकिला, नाश का त्यौहार (हिमकिरीटिनी) **स. ही. वा. 'अज्ञेय'** – कलगी बाजरे की; कतकी पूनो; सोन–मछली, नदी के द्वीप, साम्राज्ञी का नेवैद्य दान	10	
5	**भवानीप्रसाद मिश्र** – सतपुड़ा के जंगल; गीत–फरोश (दूसरा सप्तक) **रघुवीर सहाय** – पढ़िए गीता; रामदास; हँसो हँसो जल्दी हँसो, नेता क्षमा करें	10	
6	**ग.मा.'मुक्तिबोध'** – मुझे कदम–कदम पर; मुझे पुकारती हुई पुकार **गिरिजा कुमार माथुर** – आज हैं केसर रंग रंगे वन; बुद्ध (तारसप्तक)	06	
	Total	50	50 (L) + 10(T) = 60

Course outcomes

इस पाठ के अध्ययन के पश्चात् विद्यार्थी छायावाद के बाद हिन्दी कविता में हो रहे बदलावों से अवगत होंगे। छायावादोत्तर हिन्दी कविता की प्रवृत्तियों एवं काव्यगत वैशिष्ट्य को समझ सकेंगे। उनकी कविता की समझ एवं आलोचनात्मक क्षमता में वृद्धि होगी। इस दौरान वे इस के कवियों के व्यक्तित्व एवं कृत्तित्व से भी परिचित होंगे।

सहायक पुस्तकें –

1. प्रतिनिधि कविताएँ : केदारनाथ अग्रवाल, राजकमल प्रकाशन, दिल्ली
2. प्रतिनिधि कविताएँ : नागार्जुन, राजकमल प्रकाशन, दिल्ली
3. कुरुक्षेत्र : रामधारी सिंह दिनकर, राजपाल प्रकाशन, दिल्ली
4. काव्य–कुसुम : सं. गणेशानंद झा, गायत्री देवी,मोतीलाल बनारसी दास प्रकाशन, पटना
5. सन्नाटे का छंद : सं. अशोक वाजपेयी, वाग्देवी प्रकाशन, बीकानेर
6. मन एक मैली कमीज है : सं. नंदकिशोर आचार्य, वाग्देवी प्रकाशन, बीकानेर
7. प्रतिनिधि कविताएँ : रघुवीर सहाय, राजकमल प्रकाशन, दिल्ली
8. चाँद का मुँह टेढ़ा है : ग. मा. मुक्तिबोध, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
9. आधुनिक हिन्दी कविता का इतिहास : नंद किशोर नवल, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
10. कवि अज्ञेय : नंद किशोर नवल, राजकमल प्रकाशन, दिल्ली
11. कविता के नये प्रतिमान : नामवर सिंह, राजकमल प्रकाशन, दिल्ली
12. नयी कविता और अस्तित्ववाद : रामविलास शर्मा, राजकमल प्रकाशन, दिल्ली
13. तार सप्तक : सं. अज्ञेय, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
14. दूसरा सप्तक : सं. अज्ञेय, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
15. तीसरा सप्तक : सं. अज्ञेय, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
16. आधुनिक साहित्य की प्रवृत्तियाँ : नामवर सिंह, लोकभारती प्रकाशन, इलाहाबाद

17. हिन्दी साहित्य और संवेदना का विकास : रामस्वरूप चतुर्वेदी, लोकभारती प्रकाशन, इलाहाबाद
18. आधुनिक हिन्दी साहित्य का इतिहास : लक्ष्मीसागर वार्ष्णेय
19. हिन्दी काव्य समीक्षा के प्रतिमान : महेश तिवारी, वाणी प्रकाशन, दिल्ली
20. साहित्यलोचन : सिद्धांत और अध्ययन – डॉ. सीताराम दीन भारती भवन प्रकाशन, पटना

SEMESTER - IV

MJC - 6 : भारतीय एवं पाश्चात्य काव्यशास्त्र

COURSE OBJECTIVES

साहित्य के अध्ययन हेतु काव्यशास्त्र की जानकारी आवश्यक है। काव्य के विभिन्न भेदों की जानकारी के अभाव में साहित्य का अध्ययन अपूर्ण माना जाता है। काव्य के विभिन्न उपकरणों यथा – अलंकार, छंद आदि से परिचय कराना इस पाठ का मुख्य उद्देश्य है। इसके साथ ही, भारतीय एवं पाश्चात्य काव्यशास्त्र के विवादों को समझाना तथा काव्य संबंधी आलोचनात्मक चेतना का विकास करना ही इस अध्याय का प्रमुख ध्येय है।

MJC - 6 : भारतीय एवं पाश्चात्य काव्यशास्त्र (Theory: 05Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 5-1-0 Per Week**
1	भारतीय काव्यशास्त्र का इतिहासः सामान्य परिचय, काव्य लक्षण, काव्य हेतु, काव्य – प्रयोजन	08	
2	काव्य–भेद, शब्द–शक्ति, काव्य–गुण, काव्य–दोष	08	
3	रस, अलंकार, रीति, ध्वनि, वक्रोक्ति और औचित्य सिंद्धांतों का सामान्य परिचय	08	
4	प्रमुख अलंकारों के लक्षण – उदाहरण – यमक, उपमा, रूपक, उत्प्रेक्षा, भ्रांतिमान, श्लेष, असंगति, विरोधाभास, अतिशयोक्ति, विभावना, मानवीकरण। प्रमुख छंदों के लक्षण–उदाहरण – दोहा, चौपाई, रोला, सोरठा, कवित्त, सवैया, छप्पय, कुंडलिया, बरवै, उल्लाला	10	
5	**पाश्चात्य काव्यशास्त्र का इतिहास** : सामान्य परिचय प्लेटो, अरस्तु, लोंजाइनस की काव्य संबंधी मान्यताएँ एवं सिद्धांत	10	
6	वर्ड्सवर्थ, कॉलरिज, क्रोचे एवं इलियट की काव्य संबंधी मान्यताएँ एवं सिद्धांत।	06	
	Total	50	50 (L) + 10 (T) = 60

Course outcomes

इस पाठ के अध्ययन के पश्चात विधार्थी काव्यशास्त्र की मौलिक अवधारणाओं से परिचय प्राप्त करेंगे। काव्य के विभिन्न प्रकारों से अवगत होंगे। साथ ही, भारतीय काव्यशास्त्र एवं पाश्चात्य काव्यशास्त्र के विवादों को भली भांति समझ पायेंगे। काव्य के विभिन्न उपकरणों यथा – अलंकार एवं छंद से परिचित होंगे। अध्ययन के पश्चात् उनकी काव्य संबंधी आलोचनात्मक चेतना विकसित होगी।

सहायक पुस्तकें –

1. काव्य के तत्व : आचार्य देवेंद्रनाथ शर्मा, लोकभारती प्रकाशन, इलाहाबाद
2. भारतीय साहित्यशास्त्र कोश : डॉ. राजवंश सहाय 'हीरा', बिहार हिंदी ग्रंथ अकादमी, पटना
3. भारतीय आलोचना – शास्त्र : डॉ. राजवंश सहाय 'हीरा', बिहार हिंदी ग्रंथ अकादमी, पटना
4. पाश्चात्य साहित्यशास्त्र कोश : डॉ. राजवंश सहाय 'हीरा', बिहार हिंदी ग्रंथ अकादमी, पटना
5. साहित्यालोचन : डॉ. श्याम सुंदर दास, सस्ता साहित्य मंडल प्रकाशन, नई दिल्ली
6. भारतीय काव्य चिंतन, डॉ. शोभा कांत मिश्र, अनुपम प्रकाशन, पटना
7. पाश्चात्य काव्यशास्त्र : डॉ. तारकनाथ बाली, वाणी प्रकाशन, नई दिल्ली
8. भारतीय काव्यशास्त्र एवं पाश्चात्य साहित्य : चिंतन, डॉ. सभापति मिश्र, जयभारती प्रकाशन, इलाहाबाद।
9. पाश्चात्य साहित्य चिंतन : निर्मला जैन, राधाकृष्ण प्रकाशन, नई दिल्ली
10. अरस्तु का काव्यशास्त्र : अनुवादक : डॉ. नगेंद्र एवं महेंद्र चतुर्वेदी, हिंदी अनुसंधान परिषद्, दिल्ली विश्वविद्यालय, नई दिल्ली

11. साहित्यालोचन : सिद्धांत और अध्ययन, डॉ. सीताराम दीन, भारती भवन, पटना

12. पाश्चात्य काव्य चिंतन – डॉ. शोभाकांत मिश्र, अनुपम प्रकाशन, पटना

SEMESTER - IV

MJC - 7: हिंदी की साहित्यिक विधाएँ : उद्‌भव और विकास

COURSE OBJECTIVES

हिंदी की साहित्यिक विधाओं के स्वरूप, उद्‌भव एवं विकास की अवधारणा को सपूर्णता में समझना इस पाठ का मुख्य उद्देश्य है। इस पाठ के माध्यम से विभिन्न साहित्यिक विधाओं की विशिष्टता एवं महत्त्व से विद्यार्थियों को परिचित कराना तथा विभिन्न विधाओं के बीच के अंतर को स्पष्ट करना आवश्यक है ताकि विद्यार्थी विधाओं के विकास एवं आधुनिकता के संबंध को समझ सके।

MJC - 7 : हिंदी की साहित्यिक विधाएँ : उद्‌भव और विकास (Theory: 05 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 5-1-0 Per Week**
1	साहित्य का स्वरूप : संक्षिप्त परिचय (भेद लक्षण एवं तत्त्व : भारतीय एवं पाश्चात्य मत)	**08**	
2	हिंदी की साहित्यिक विधाएँ : सामान्य परिचय एवं उद्‌भव और विकास पद्य : महाकाव्य, खण्डकाव्य, मुक्तककाव्य, चम्पूकाव्य, स्फुटकाव्य	**08**	
3	गीति काव्य, प्रगीत, नयी कविता, नवगीत	**08**	
4	गद्यः उपन्यास, कहानी, नाटक, एकांकी, निबंध, आलोचना, यात्रा–वृत्तांत	**10**	
5	पत्र–साहित्य, डायरी, रिपोर्ताज, रेखाचित्र/शब्दचित्र, संस्मरण, जीवनी, आत्मकथा	**10**	
6	साहित्यिक विधाओं में अंतर • महाकाव्य और खण्डकाव्य • प्रबंध काव्य और मुक्तककाव्य • उपन्यास और कहानी • नाटक और एकांकी • संरमरण और यात्रा–वृत्तांत • जीवनी और आत्मकथा • रेखाचित्र और संस्मरण	**06**	
	Total	**50**	50 (L) + 10 (T) = 60

21-09-2023 21.09.2023 21.9.23 21/09/23 21.9.23 21.9.23

Course outcomes

इस पाठ के अध्ययन के पश्चात विद्यार्थी साहित्यिक विधाओं के स्वरूप एवं इतिहास के साथ-साथ उनके उद्भव एवं विकास की अवधारणा को समझ पायेंगे। वे विभिन्न साहित्यिक विधाओं की विशिष्टता एवं महत्त्व के साथ ही विभिन्न विधाओं के मध्य मौलिक अंतर से अवगत होंगे।

सहायक पुस्तकें –

1. हिंदी साहित्य का इतिहास : रामचंद्र शुक्ल, नागरी प्रचारिणी सभा, काशी
2. हिंदी साहित्य का इतिहास : संपादक डॉ. नगेंद्र, पेपरबैक।
3. साहित्यालोचन : डॉ. श्यामसुंदर दास, लोकभारती प्रकाशन, इलाहाबाद
4. कविता क्या है : विश्वनाथ प्रसाद तिवारी, राजकमल प्रकाशन, नयी दिल्ली
5. साहित्य विधाओं की अंतः प्रकृति : डॉ. हरिमोहन।
6. हिंदी का गद्य साहित्य : रामचंद्र तिवारी, विश्वविद्यालय प्रकाशन, वाराणसी
7. कविता के नये प्रतिमान : नामवर सिंह, राजकमल प्रकाशन, नयी दिल्ली
8. हिंदी गद्य : विन्यास और विकास, रामस्वरूप चतुर्वेदी, लोकभारती प्रकाशन, इलाहाबाद
9. भारतीय एवं पाश्चात्य काव्य सिद्धांत : गणपति चंद्र गुप्त, लोक भारती प्रकाशन, इलाहाबाद
10. हिंदी उपन्यास का विकास : मधुरेश, लोकभारती, प्रकाशन, इलाहाबाद
11. हिंदी कहानी का विकास : मधुरेश, लोकभारती प्रकाशन, इलाहाबाद
12. हिंदी आलोचना का विकास : मधुरेश, लोकभारती प्रकाशन, इलाहाबाद
13. नयी कविता : नंददुलारे वाजपेयी, लोकभारती प्रकाशन, इलाहाबाद

14. हिंदी साहित्य : उद्‌भव और विकासः हजारी प्रसाद द्विवेदी, राजकमल प्रकाशन, नयी दिल्ली
15. हिंदी काव्य का इतिहास : रामस्वरूप चतुर्वेदी, राज कमल प्रकाशन, नयी दिल्ली
16. हिंदी नाटक : बच्चन सिंह, राधाकृष्ण प्रकाशन, नयी दिल्ली
17. हिंदी साहित्य कोश : सं. डॉ. धीरेंद्र वर्मा (प्रधान), ज्ञानमंडल लिमिटेड, वाराणसी
18. हिंदी आलोचना की पारिभाषिक शब्दावली : डॉ. अमरनाथ, राजकमल प्रकाशन, नयी दिल्ली
19. हिंदी कहानी का विकास : डॉ. गोपाल राय, राजकमल प्रकाशन, नयी दिल्ली
20. साहित्यालोचनः सिद्धांत और अध्ययन – डॉ. सीताराम दीन – भारती भवन, पटना
21. बोलती रेखाएँ – डॉ. उषारानी सिंह – मांगलिका प्रकाशन, पटना

SEMESTER – V

MJC 8 : हिंदी भाषा : उद्भव और विकास

Course Objective –

हिंदी भाषा के उद्भव और विकास तथा भारतीय आर्यभाषा परिवार के विकास–क्रम की समझ के साथ–साथ अवधी, ब्रजभाषा और खड़ी बोली के साहित्यिक भाषा के रूप में विकास की प्रक्रिया को विद्यार्थी जान सकेंगे।

MJC 8 : हिंदी भाषा : उद्भव और विकास (Theory: 06 Credits)			
Unit	Topics to be covered	No. of Lectures	L.T.P
1	• भारतीय भाषा–चिंतन की परंपरा : पाणिनि, भर्तृहरि और दिङ्नाग का भाषा विषयक चिंतन • भारोपीय भाषा परिवार से आधुनिक भारतीय भाषाओं का उद्भव और विकास	10	
2	• मध्य काल में देश में आधुनिक भारतीय आर्यभाषाओं का विकास, प्राकृत और अपभ्रंश से उनका संबंध तथा हिंदी जाति की अवधारणा • राजस्थानी, अवधी, ब्रज तथा खड़ी बोली का भौगोलिक परिचय एवं उनकी सामान्य विशेषताएँ	16	
3	• नवजागरण और आधुनिक हिंदी आंदोलन : हिंदी, उर्दू, हिंदुस्तानी	12	
4	• अन्य भारतीय भाषाएँ और हिंदी भाषा की विशिष्टता और एकता	06	
5	• स्वाधीनता संघर्ष में हिन्दी की भूमिका • संविधान में हिंदी, राजभाषा, राष्ट्रभाषा एवं संपर्क भाषा के रूप में हिंदी	08	
6	• देवनागरी लिपि की विशेषताएँ और मानकीकरण का प्रश्न • बिहार की प्रमुख बोलियाँ– मगही, भोजपुरी, मैथिली, अंगिका और बज्जिका का सामान्य परिचय	08	
	कुल	**60**	L - 60 + T – 15 = **75**

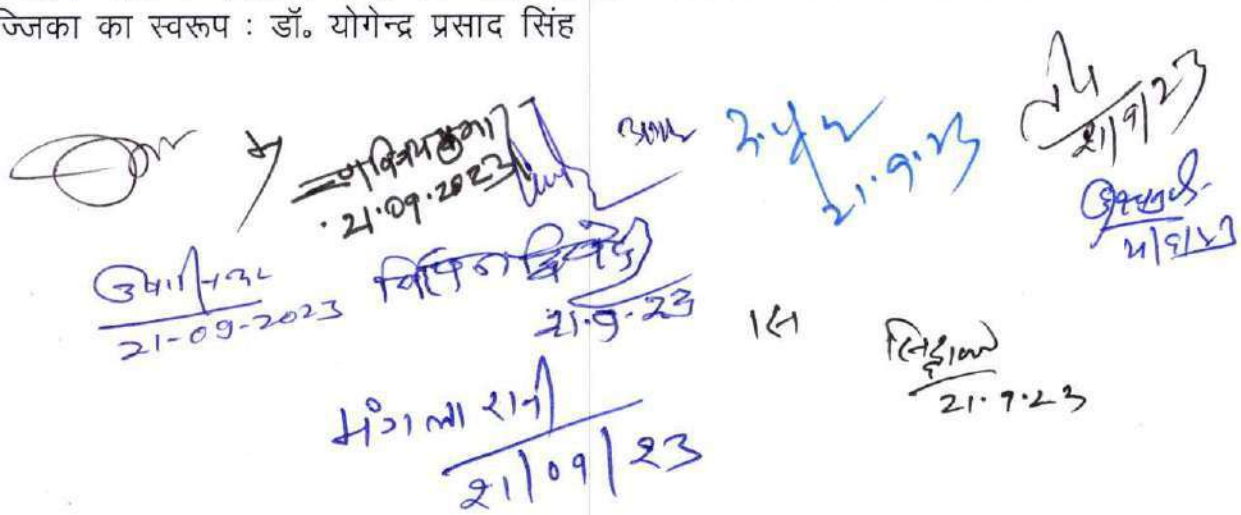
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Course Ooutcome –

इस पत्र के अध्ययन से भाषा चिन्तन की भारतीय परम्परा, भारोपीय भाषा परिवार एवं मध्यकाल में भाषा के विकास को जान सकेंगे। इसके अलावा आधुनिक हिन्दी आंदोलन, हिन्दी की संवैधानिक स्थिति, देवनागरी लिपि के साथ–साथ विद्यार्थी अपनी भाषा और बोली के विकासात्मक स्वरूप को समझ सकेंगे।

सहायक पुस्तकें :

1. भाषा और समाज : रामविलास शर्मा
2. हिंदी साहित्य का आदिकाल – हजारी प्रसाद द्विवेदी
3. पुरानी हिंदी : चंद्रधर शर्मा गुलेरी
4. भारतीय आर्य भाषा और हिंदी : सुनीती कुमार चटर्जी
5. हिंदी उद्‌भव विकास एवं रूप : हरदेव बाहरी
6. हिंदी भाषा : डॉ भोलानाथ तिवारी
7. राजस्थानी भाषा का उद्‌भव और विकास : डॉ. दामोदर लाल शर्मा
8. हिंदी भाषा का इतिहास : धीरेंद्र वर्मा
9. राजभाषा हिंदी : डॉ. भोलानाथ तिवारी
10. बज्जिका भाषा और साहित्य : डॉ॰ सियाराम तिवारी
11. बज्जिका भाषा के कतिपय शब्दों का आलोचनात्मक अध्ययन : डॉ॰ योगेन्द्र प्रसाद सिंह
12. बज्जिका का स्वरूप : डॉ॰ योगेन्द्र प्रसाद सिंह



SEMESTER – V

MJC 9 : हिंदी उपन्यास

Course Objective –

उपन्यास की अवधारणा एवं हिन्दी उपन्यास के विकास–क्रम से विद्यार्थी परिचित हो सकेंगे। प्रेमचन्द, जैनेन्द्र, यशपाल, मन्नू भंडारी एवं फणीश्वरनाथ रेणु के उपन्यास–साहित्य की जानकारी प्राप्त कर सकेंगे। गबन, त्यागपत्र, दिव्या, महाभोज, जुलूस उपन्यास में निहित भाव एवं कला पक्ष को समझेंगे एवं इनमें निहित विचारों पर चिन्तन कर सकेंगे।

MJC 9 : हिंदी उपन्यास (Theory: 06 Credits)			
Unit	Topics to be covered	No. of Lectures	L.T.P
1	उपन्यास की अवधारणा और हिन्दी उपन्यासों का विकास–क्रम	04	
2	गबन – प्रेमचंद	12	
3	त्यागपत्र –जैनेन्द्र	08	
4	दिव्या–यशपाल	12	
5	महाभोज–मन्नू भंडारी	12	
6	जुलूस–फणीश्वरनाथ रेणु	12	
	कुल	**60**	L - 60 + T – 15 = **75**

Course Ooutcome –

भारतीय कथा–साहित्य की परम्परा में उपन्यास की अवधारणा और विकास–क्रम की जानकारी को समृद्ध करना इस पत्र का प्रमुख अभीष्ट है। हिन्दी उपन्यास में प्रेमचन्द मील के पत्थर हैं। ऐसी स्थिति में गबन उपन्यास के अध्ययन से आभूषणप्रियता के मोह का दुष्परिणाम और सेवा भावना के महत्त्व से परिचित होंगे। साथ ही त्यागपत्र उपन्यास के माध्यम से मनोवैज्ञानिक चेतना तथा दिव्या के माध्यम से बौद्ध–जीवन दर्शन के ज्ञान से समृद्ध हो सकेंगे। महाभोज उपन्यास के माध्यम से राजनीति के दावपेंच एवं जुलूस में विस्थापन तथा विभाजन की पीड़ा और त्रासदी की समस्या का उद्घाटन इस पत्र के अध्ययन द्वारा सम्भव होगा।

सहायक पुस्तकें :

1. गबन, प्रेमचंद, लोकभारती प्रकाशन, इलाहाबाद
2. त्यागपत्र, जैनेंद्र, भारतीय ज्ञानपीठ, नई दिल्ली
3. दिव्या, यशपाल. लोकभारती प्रकाशन, इलाहाबाद
4. महाभोज, मन्नू भंडारी, राधाकृष्ण प्रकाशन, दिल्ली
5. जुलूस,फणीश्वर नाथ रेणु, राजकमल प्रकाशन, दिल्ली
6. प्रेमचंद और उनका युग, डॉ. रामविलास शर्मा, राजकमल प्रकाशन, दिल्ली
7. उपन्यास स्वरूप और संवेदना, राजेंद्र यादव, वाणी प्रकाशन, दिल्ली
8. जैनेंद्र के उपन्यास, परमानंद श्रीवास्तव, लोकभारती प्रकाशन, इलाहाबाद
9. उपन्यास की संरचना, गोपाल राय, राजकमल प्रकाशन, दिल्ली
10. हिंदी उपन्यासः नया पाठ, हेमंत कुकरेती, वाणी प्रकाशन, दिल्ली
11. प्रेमचंद और भारतीय समाज, सं. नामवर सिंह, राजकमल प्रकाशन, दिल्ली
12. उपन्यास की रचना प्रक्रिया, परमानंद श्रीवास्तव, लोकभारती प्रकाशन, इलाहाबाद
13. हिंदी उपन्यास का विकास, मधुरेश, लोकभारती प्रकाशन, इलाहाबाद
14. जैनेंद्र कुमार : चिंतन और सृजन, मधुरिमा कोहली, पराग प्रकाशन, दिल्ली
15. प्रेमचंद : एक साहित्यिक विवेचन, नंददुलारे वाजपेयी, राजकमल प्रकाशन, दिल्ली
16. अनासक्त आस्तिक : जैनेन्द्र की जीवनी : ज्योतिष जोशी, राजकमल प्रकाशन, दिल्ली
17. हिन्दी उपन्यास का इतिहास : गोपाल राय, राजकमल प्रकाशन, दिल्ली

~~SEMESTER – VI~~

MJC 10 : हिंदी कहानी

Course Objective –

इस पत्र के अध्ययन से विद्यार्थी हिन्दी कहानी की विकास–यात्रा को समझ सकेंगे। इसके माध्यम से कहानी–साहित्य के स्वरूप को समझा जा सकता है। कहानियों के सम्वाद और कथा चरित्रों को जानने के साथ कहानीकारों से परिचय प्राप्त कर सकेंगे। कहानियों की पाठ–आधारित व्याख्या कर पाने में सक्षम होंगे।

MJC 10 : हिंदी कहानी (Theory: 06 Credits)			
Unit	Topics to be covered	No. of Lectures	L.T.P
1	उसने कहा था : चंद्रधर शर्मा गुलेरी; पूस की रात : प्रेमचंद; आकाशदीप : जयशंकर प्रसाद	14	
2	पाजेब : जैनेन्द्र; शरणदाता : अज्ञेय	08	
3	मिस पाल : मोहन राकेश; सिक्का बदल गया : कृष्णा सोबती	10	
4	दोपहर का भोजन :अमरकांत; तीसरी कसम : फणीश्वर नाथ रेणु	12	
5	भेड़िये : भुवनेश्वर; चीफ की दावत : भीष्म साहनी	08	
6	कोसी का घटवार : शेखर जोशी; पिता : ज्ञानरंजन	08	
	कुल	60	L - 60 + T – 15 = 75

Course Ooutcome –

इस पत्र के अध्ययन से हिन्दी कहानी की विकास–यात्रा में विविध काल–खण्ड की कहानियों और कहानीकारों के संवेदानात्मक धरातल को विविध–दृष्टियों से समझने में समर्थ होंगे। गुलेरी से लेकर प्रेमचन्द, प्रसाद, जैनेन्द्र, अज्ञेय, मोहन राकेश, अमरकान्त, रेणु, शेखर जोशी, ज्ञान रंजन की कहानियों की संवेदना और शिल्प की समुचित जानकारी से समृद्ध होंगे।

सहायक पुस्तकें :

1. कहानी : नई कहानी, नामवर सिंह
2. प्रतिनिधि कहानियाँ : सं. डॉ. दिनेश प्रसाद सिंह, मोतीलाल बनारसीदास, पटना
3. यू.जी.सी. नेट, जेआरएफ, हिंदी पाठ्यक्रम में शामिल संपूर्ण कहानियाँ : महेंद्र सिंह, जेएनयू दिल्ली
4. एक दुनिया समानान्तर : सम्पादक– राजेंद्र यादव
5. मानसरोवर भाग–1 : – प्रेमचंद
6. भुवनेश्वर समग्र, सम्पादक दूधनाथ सिंह, राजकमल प्रकाशन, दिल्ली
7. मोहन राकेश की सम्पूर्ण कहानियाँ, राजपाल एण्ड सन्स, दिल्ली

SEMESTER - VI

MJC - 11: हिन्दी नाटक एवं रंगमंच

COURSE OBJECTIVES

इस पाठ का मुख्य उद्देश्य नाटक एवं रंगमंच के स्वरूप को समझाने उसके विभिन्न रूपों के साथ–साथ बिहार की विशेष नाट्य शैली से विद्यार्थियों का परिचय कराना है। साथ ही विभिन्न नाटककारों एवं नाटकों के विश्लेषण तथा आलोचना करने की क्षमता का विकास करना भी मुख्य ध्येय है।

MJC - 11 : हिन्दी नाटक एवं रंगमंच (Theory: 05 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 5-1-0 Per Week**
1	नाटक एवं रंगमंच : अंतर्संबंध और अंतर्द्वंद; हिंदी रंगमंच के विकास की रूपरेखा; हिंदी नाटक के विभिन्न रूपों का परिचय; बिहार की विशेष नाट्य–शैलियाँ और रंगमंच	**08**	
2	अंधेरी नगरी : भारतेंदु हरिश्चंद्र	**08**	
3	स्कंदगुप्त : जयशंकर प्रसाद	**08**	
4	आषाढ़ का एक दिन : मोहन राकेश	**10**	
5	कबीरा खड़ा बाजार में : भीष्म साहनी	**10**	
6	कोणार्क : जगदीश चंद्र माथुर	**06**	
	Total	**50**	50 (L) + 10 (T) = 60

Course outcomes

इस पाठ के अध्ययन के पश्चात विद्यार्थी नाटक एवं रंगमंच के स्वरूप, प्रकार एवं बिहार के विशेष नाट्य शैलियों से परिचित होंगे। साथ ही नाटकों एवं नाटककारों को पढ़ते हुए अपनी विश्लेषण एवं आलोचनात्मक क्षमता को विकसित करेंगे।

सहायक पुस्तकें –

1. नाट्यशास्त्र की भारतीय परंपरा और दशरूपक, आचार्य हजारी प्रसाद द्विवेदी, राजकमल प्रकाशन नई दिल्ली
2. नाटक और नाट्य शैलियाँ, दुर्गा दीक्षित, साहित्य भवन, इलाहाबाद
3. रंगमंच कला और दृष्टि, डॉ. गोविंद चातक, तक्षशिला प्रकाशन, नई दिल्ली
4. आज के हिंदी नाटक परिवेश और कई दृश्य, जयदेव तनेजा, तक्षशिला प्रकाशन, नई दिल्ली
5. हिंदी नाटक का आत्म संघर्ष, गिरीश रस्तोगी, लोकभारती प्रकाशन, इलाहाबाद
6. रंगदर्शन, नेमीचंद्र जैन, वाणी प्रकाशन, नई दिल्ली।
7. हिंदी नाट्य परिदृश्य, सं. डॉ. धीरेंद्र शुक्ल, प्रकाशन संस्थान, नई दिल्ली
8. भारतीय नाट्य सिद्धांत उद्‌भव और विकास, डॉ. रामजी पांडे, बिहार राष्ट्रभाषा परिषद्, पटना
9. रंग वैचारिकी : नए सदंर्भों में, संपादक आशा, अनन्य प्रकाश, नई दिल्ली
10. अंधेर नगरी, संपादक परमानंद श्रीवास्तव, लोकभारती प्रकाशन, इलाहाबाद
11. अंधेर नगरी : संवेदना और शिल्प, सिद्धनाथ कुमार, अनुपम प्रकाशन
12. स्कंदगुप्त : संवेदना और शिल्प, सिद्धनाथ कुमार, अनुपम प्रकाशन
13. आषाढ़ का एक दिन : विश्लेषण–विवेचन, संपादक सिद्धनाथ कुमार, अनुपम प्रकाशन, पटना
14. धर्मवीर भारती और उनका अंधायुग, डॉ. लक्ष्मण दत्त गौतम, अशोक प्रकाशन, नई दिल्ली

15. प्रसाद के नाटकों का पुनर्मूल्यांकन (प्रसाद के नाटक), सिद्धनाथ कुमार, अनुपम प्रकाशन

16. आधुनिक हिंदी नाटक का अग्रदूत मोहन राकेश, डॉ. गोविंद चातक, राधाकृष्ण प्रकाशन, नई दिल्ली

SEMESTER - VI

MJC-12 : हिंदी निबंध एवं अन्य गद्य विधाएँ

Course Objectives

इस पाठ का मुख्य उद्देश्य विद्यार्थियों को हिंदी निबंध के विभिन्न रूपों, वैशिष्ट्य, प्रमुख निबंध एवं निबंधकारों के व्यक्ति एवं कृतित्व से परिचय कराना है। साथ ही निबंध के पाठ्यगत विश्लेषण के माध्यम से विद्यार्थियों की आलोचना क्षमता को विकसित करना भी मुख्य ध्येय है।

MJC - 12 : हिंदी निबंध एवं अन्य गद्य विधाएँ (Theory: 05 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 5-1-0 Per Week**
1	कछुआ–धर्म – चंद्रधर शर्मा गुलेरी उत्साह – रामचंद्र शुक्ल	08	
2	देवदारू – हजारी प्रसाद द्विवेदी महाकवि जयशंकर प्रसाद– शिवपूजन सहाय	10	
3	रजिया, रामवृक्ष बेनीपुरी हिंदी कविता और छंद – रामधारी सिंह दिनकर	12	
4	'रामा' (अतीत के चलचित्र से) – महादेवी वर्मा किन्नर देश पर एक ऐतिहासिक दृष्टि ('किन्नर देश में से) – राहुल सांकृत्यायन	10	
5	मेरी माँ ने मुझे प्रेमचंद का भक्त बनाया – मुक्तिबोध 'बक़लम खुद' का 'गप–शप़' पाठ – डॉ. नामवर सिंह	10	
	Total	50	50 (L) + 10(T) = 60

Course outcomes

इस पाठ को पढ़ने के पश्चात् विद्यार्थी हिंदी निबंध के विभिन्न रूपों एवं वैशिष्ट्य से अवगत होंगे। साथ ही, हिंदी निबंधकारों के व्यक्तित्व एवं कृतित्व से परिचित होते हुए अपनी आलोचनात्मक क्षमता को विकसित कर सकेंगे।

सहायक पुस्तकें :

1. हिंदी गद्य : विन्यास और विकास, डॉ. रामस्वरूप चतुर्वेदी
2. छायावादोत्तर हिंदी गद्य साहित्य, विश्वनाथ प्रसाद तिवारी
3. हिंदी का गद्य साहित्य, रामचंद्र तिवारी
4. आधुनिक हिंदी गद्य साहित्य, हरदयाल
5. महादेवी का गद्य साहित्य,माखनलाल शर्मा
6. आधुनिक हिंदी–साहित्य,लक्ष्मीसागर वार्ष्णेय
7. हिंदी गद्य का उद्‌भव और विकास, विजयेंद्र स्नातक
8. चंद्रधर शर्मा गुलेरीः व्यक्तित्व और कृतित्व, पीयूष गुलेरी
9. प्रारंभिक रचनाएँ : नामवर सिंह (सं. भारत यायावर), राजकमल प्रकाशन, दिल्ली

SEMESTER – VII

MJC-13 : हिंदी की साहित्यिक पत्रकारिता

Course Objectives

इस पाठ का मुख्य उद्देश्य पत्रकारिता के विकास में हिन्दी के प्रमुख साहित्यकारों के योगदान तथा हिंदी पत्रकारिता का हिंदी साहित्य के विकास में योगदान से विद्यार्थियों को परिचित कराना है। साथ ही विभिन्न कालों में हिंदी की साहित्यिक पत्रकारिता के विकास एवं स्वरूप से परिचय कराते हुए कुछ महत्वपूर्ण पत्र–पत्रिकाओं से अवगत कराना भी मुख्य ध्येय है।

MJC - 13 : हिंदी की साहित्यिक पत्रकारिता (Theory: 05 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 5-1-0 Per Week**
1	साहित्यिक पत्रकारिता : अर्थ, अवधारणा, और महत्त्व. साहित्यिक पत्रकारिता का वैशिष्ट्य.	**08**	
2	भारतेंदु युगीन साहित्यिक पत्रकारिता : परिचय और प्रवृतियाँ द्विवेदी युगीन साहित्यिक पत्रकारिता : परिचय और प्रवृतियाँ	**08**	
3	प्रेमचंद युगीन साहित्यिक पत्रकारिता : परिचय और प्रवृतियाँ स्वातंत्र्योत्तर साहित्यिक पत्रकारिता : परिचय और प्रवृतियाँ	**08**	
4	समकालीन साहित्य पत्रकारिता : परिचय और प्रवृत्तियाँ साहित्यिक पत्रकारिता में अनुवाद की भूमिका	**10**	
5	हिंदी की महत्वपूर्ण पत्र पत्रिकाएँ : (क) कवि वचन सुधा, हिंदी प्रदीप, सरस्वती, प्रताप, कर्मवीर, मतवाला	**10**	
6.	हिंदी की महत्वपूर्ण पत्र पत्रिकाएँ : (ख) विशाल भारत, कल्पना, हंस, पहल, आलोचना।	**06**	
	Total	**50**	50 (L) + 10 (T) = 60

21.09.2023 21-09-2023 21/09/23 21-9-23 21/9/23 21.3.23

Course Outcomes

इस पाठ को पढ़ने के पश्चात् विद्यार्थी हिंदी पत्रकारिता के विकास में हिंदी साहित्यकारों के योगदान तथा हिंदी पत्रकारिता का हिंदी साहित्य के विकास में योगदान से अवगत होंगे। साथ ही विभिन्न युगों में हिंदी की साहित्यिक पत्रकारिता के विकास के स्वरूप से परिचित होते हुए कुछ मुख्य पत्र–पत्रिकाओं के संबंध में जानकारी हासिल करेंगे।

सहायक पुस्तकें :

1. साहित्यिक पत्रकारिता : ज्योतिष जोशी, वाणी प्रकाशन
2. साहित्यिक पत्रकारिता का परिदृश्य : सं. अरुण तिवारी
3. पत्रकारिता के उत्तर, आधुनिक चरण : कृपाशंकर चौबे
4. बिहार की हिंदी साहित्यिक पत्रकारिता : कल्याण कुमार झा, साहित्य कला संगम, बेतिया
5. हिंदी पत्रकारिता : जातीय चेतना और खड़ी बोली साहित्य की निर्माण भूमि : डॉ. कृष्ण बिहारी मिश्र, भारतीय ज्ञानपीठ प्रकाशन
6. आचार्य महावीर प्रसाद द्विवेदी और साहित्यिक पत्रकारिता : इंद्रसेन सिंह
7. भारतेन्दु और हिन्दी नवजागरण : रामविलास शर्मा, राजकमल प्रकाशन, दिल्ली
8. महावीर प्रसाद द्विवेदी और हिन्दी नवजागरण : रामविलास शर्मा, राजकमल प्रकाशन, दिल्ली
9. हिन्दी के प्रमुख साहित्यकारों की पत्रकारिता – डॉ. अशोक कुमार सिन्हा अभिधा प्रकाशन, नई दिल्ली

SEMESTER – VII

MJC-15 : प्रयोजनमूलक हिंदी

COURSE OBJECTIVES

वर्त्तमान समय में प्रयोजनमूलक हिंदी का अध्ययन हिंदी के विद्यार्थियों के लिए महत्वपूर्ण हो गया है। प्रयोजनमूलक हिंदी के विभिन्न प्रकारों की जानकारी एवं उसके स्वरूप से अवगत होना आज की मांग है। सरकारी कार्यालयों तथा व्यावसायिक प्रतिष्ठानों में हिंदी के प्रयोग को सीखना विद्यार्थियों के लिए आवश्यक हो गया है। इस पाठ्य का मुख्य उद्देश्य प्रयोजनमूलक हिंदी के विभिन्न आयामों से विद्यार्थी को परिचित कराना है।

MJC - 15 : प्रयोजनमूलक हिंदी (Theory: 06 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 6-1-0 Per Week**
1	**प्रयोजनमूलक हिंदी** : स्वरूप, व्यवहार क्षेत्र, शैक्षिक संदर्भ : उद्देश्य और सीमा; मातृभाषा एवं अन्य भाषा के रूप में हिंदी, बोलचाल की सामान्य हिंदी, मानक हिंदी और साहित्यिक हिंदी, संविधान में हिंदी	12	
2	**हिंदी की शैलियाँ** : हिंदी, उर्दू और हिंदुस्तानी; हिंदी का मानकीकरण	06	
3	**प्रयोजनमूलक हिंदी के प्रमुख प्रकार** : कार्यालयी हिंदी और उसके प्रमुख लक्षण, वैज्ञानिक हिंदी और उसके प्रमुख लक्षण; व्यावसायिक हिंदी और उसके प्रमुख लक्षण; व्यावहारिक हिंदी और उसके प्रमुख लक्षण; संचार माध्यम (आकाशवाणी, दूरदर्शन,चलचित्र) की हिंदी और उसके प्रमुख लक्षण	12	
4	**हिंदी के प्रयोग क्षेत्र** : भाषा प्रयुक्ति की संकल्पना, वैज्ञानिक और तकनीकी हिंदी की प्रयुक्ति, अन्य प्रयुक्तियाँ–वाणिज्य, बैंकिंग, विधि एवं न्याय क्षेत्र की हिंदी	12	

5	**भाषा व्यवहारः** सरकारी पत्राचार, टिप्पणी लेखन, मसौदा लेखन, बैठकें और प्रतिवेदन प्रारूपण, सार–लेखन, विज्ञापन–लेखन, सरकारी और व्यावसायिक पत्र लेखन	**12**	
6.	**हिंदी में पारिभाषिक शब्द निर्माण;** प्रक्रिया एवं प्रस्तुति	**06**	
	Total	**60**	60 (L)+15 (T) = 75

Course outcomes

इस पाठ के अध्ययन के पश्चात् विद्यार्थी प्रयोजनमूलक हिंदी के स्वरूप, व्यवहार एवं उनके प्रकारों से अवगत होंगे। साथ ही साथ सरकारी कार्यालयों एवं व्यावसायिक प्रतिष्ठानों में प्रयोग की जाने वाली हिंदी को सीख सकेंगे।

सहायक पुस्तकें:

1. प्रयोजनमूलक हिंदी, माधव सोनटक्के, लोकभारती प्रकाशन, इलाहाबाद
2. प्रयोजनमूलक हिंदी, रामकिशोर शर्मा, श्यामा प्रकाशन, इलाहाबाद
3. हिंदी भाषा का प्रयोजनमूलक स्वरूप, डॉ. चंद्र भाटिया, साहित्य भवन
4. प्रयोजनमूलक भाषा कार्यालयी हिंदी, कृष्ण कुमार गोस्वामी, कलिंगा प्रकाशन, दिल्ली
5. प्रयोजनमूलक कामकाजी हिंदी, डॉ. कैलाश चंद्र भाटिया. तक्षशिला प्रकाशन. नई दिल्ली
6. प्रयोजनमूलक हिंदी : संरचना और अनुप्रयोग, डॉ. रामप्रकाश, डॉ. दिनेश गुप्त, राधाकृष्ण प्रकाशन
7. प्रयोजनी हिंदी, सूर्य प्रसाद दीक्षित, भारत बुक सेंटर, लखनऊ
8. प्रयोजनमूलक हिंदी का अध्ययन, संपादक सुशीला गुप्ता, जय भारती प्रकाशन, इलाहाबाद
9. मीडिया की भाषा, वसुधा गाडगिल
10. प्रारूपण, शासकीय पत्राचार और टिप्पण–लेखन विधि, राजेंद्र प्रसाद श्रीवास्तव
11. आधुनिक हिंदी व्याकरण और रचना, डॉ. वासुदेव नंदन प्रसाद भारती भवन, पटना
12. हिन्दी व्याकरणः कामता प्रसाद गुरु, राजकमल प्रकाशन, नयी दिल्ली

SEMESTER – VIII

MJC-16 : लोक साहित्य

COURSE OBJECTIVES

इस पाठ का मुख्य उद्देश्य भारतीय समाज में लोक के स्वरूप एवं महत्त्व तथा लोक की संस्कृति और उसके विभिन्न रूपों से विद्यार्थी को अवगत कराना है। साथ ही, लोक भाषा के महत्त्व एवं लोक और शिष्ट साहित्य के अन्तर एवं अंतर्संबंध को रेखांकित करना भी मुख्य ध्येय है।

MJC - 16 : लोक साहित्य (Theory: 04 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 4-1-0 Per Week**
1	लोक और लोकवार्ता, लोक संस्कृति की अवधारणा, लोकवार्ता और लोक संस्कृति, लोक संस्कृति और साहित्य, साहित्य और लोक का अंतर्संबंध, लोक साहित्य का अन्य सामाजिक विज्ञान से संबंध, लोक साहित्य के अध्ययन की समस्याएँ	10	
2	भारत में लोक साहित्य के अध्ययन का इतिहास, लोक साहित्य के प्रमुख रूपों का वर्गीकरण। लोक गीत : संस्कारगीत, व्रतगीत, श्रमगीत, ऋतुगीत, जातिगीत	06	
3	लोकनाट्य : रामलीला, रासलीला, किर्तनियाँ, स्वांग, यक्षगान, विदेशिया, भांड, तमाशा, नौटंकी। हिंदी लोकनाट्य की परम्परा एवं प्रविधि। हिंदी नाटक एवं रंगमंच पर लोकनाट्यों का प्रभाव	10	
4	लोककथा : व्रतकथा, परिकथा, नाग–कथा, कथारूढियाँ और अन्धविश्वास	05	
5	लोकभाषा : लोक सुभाषित मुहावरे, कहावतें, लोकोक्तियाँ, पहेलियाँ	05	
6.	लोकनृत्य एवं लोकसंगीत	04	
	Total	40	40 (L) + 08 (T) =

Course outcomes

इस पाठ के अध्ययन के पश्चात् विद्यार्थी समाज में लोक के स्वरूप और उसके महत्त्व तथा लोक की संस्कृति और उसके विभिन्न रूपों से परिचित होंगे। साथ ही, लोक भाषा के महत्त्व, लोक साहित्य को समझ सकेंगे।

सहायक पुस्तकें:

1. लोक : पीयूष दइया (सं.)
2. लोक का आलोक : पीयूष दइया (सं.)
3. लोक साहित्य की भूमिका : धीरेन्द्र वर्मा
4. लोक साहित्य : सत्येन्द्र
5. भारतीय लोक साहित्य : श्याम परमार
6. पारंपरिक लोक–नाट्य : जगदीश चन्द्र माथुर
7. लोक साहित्य की सांस्कृतिक परम्परा : मनोहर शर्मा
8- Tradition of Indian Folk Dance : Kapila Vatsyayan

MJC-14

To
The Principal Secretary to Governor
Raj Bhavan, Patna

Subject: Regarding submission of proposed syllabus of Research Methodology Social Sciences and Humanities undergraduate level.

Ref:BSU (UGC)-02/2023 -1473/GS(I), Dated 18.09.2023.

Sir,

In compliance to your letter no. BSU (UGC)-02/2023 -1473/GS(I), Dated 18.09.2023., we are submitting thesyllabus of second semester MJC – 145 credit and 100 marks.

Yours faithfully

19.9.2023
Prof. Anil Kumar Ojha
Head, Deptt. Of Political Science, B.R.A. Bihar University, Muzaffarpur

18/09/23
Prof. Arun Kumar Singh,Department of Psychology, Patna University

19/09/2023
Prof. Ram Pravesh Yadav
Deptt. Of Geography BRA Bihar University, Muzaffarpur

19.09.2023
Prof. Shefali Raj
Director, Institute of Public Administration, Patna University, Patna

18/09/2023
Dr.Aditi Tyagi
Asst. Professor of Political Science, Patna University, Patna

19.09.23
Prof. B. K. Lal
Professor of Economics, Patna University, Patna

19/09/2023
Prof. Tarun Kumar
Principal, Patna College, Patna

19/9/2023
Prof. Rashmi Akhouri,Professor of Economics, PPU, Patna

19.09.2023
Prof. Dipak Kumar
Professor of Sociology, Magadh University, Bodh Gaya

19/09/2023
Prof. Jayadeva Mishra
Former HOD, A.I.H. and Archaeology, Patna University

Enclosed as above.

Semester VII

MJC 14- Research Methodology (Social Sciences& Humanities)

Course credit- 05, Full marks- 100

Course Objectives:

CO1: The course intends to familiarize the students of the fundamentals and process of research.

CO2: to acquaint the students with research aptitude in knowledge seeking.

CO3: to enable students to scientifically assess the reliability and validity of facts.

CO4: To empower students to conduct a factual estimate of socially relevant issues in a scientific manner.

Course Outcomes

On completion of the Course, the students can undertake independent research with following Outcomes:

LOC 1: Students will gain skills of scientific analysis.

LOC 2: Students will gain contemporary and interdisciplinary knowledge.

LOC 3: Students will have global understanding of nuances of Research.

Unit	Topics to be covered	No. of lectures
I	Research- Meaning, Purpose, Significance, Types, Stages of Research, Review of Literature, Ethical issues in Research, Plagiarism.	08
II	Research Design- Meaning and types, Identification of Research Problems and Types of variables. Hypothesis- Nature, Types, Sources, Importance, Characteristics of a good hypothesis.	10
III	Method and Tools of Data Collection Sources of Data- Primary and Secondary, Comparative method, Observation, Interview, Questionnaire, and Schedule Sampling Method- Concept, Types, Purpose, and Rationale	12
IV	Analysis and Processing of Data, Classification, and Tabulation of Data Measures of Central Tendency and Variability, Graphic representation Use of Internet and Computer technologies in Research- MS Word, MS Excel, Power point Presentation, SPSS	10
V	Report Writing and Thesis writing- Objective, Content, Layout, Research proposal/ Synopsis. Referencing- Endnote, Footnote, In-text citation, Index, Diacritical work, Bibliography (MLA and APA formats), Webliography	10
Tutorial		10
Total		60

Suggested readings

1. Ackoff, R.L., (1953)," Design of social research" The University of Chicago Press, Chicago.
2. Goode, W. and Hatt, P.K., (1952), "Methods in Social Research" MC Gracw-Hill.
3. Sharma, V.P. (2013), " Research Methodology" PanchsheelPrakashan, Jaipur.
4. Singh, A.K., "Test Measurements and Research Methods in Behavioural Sciences" Bharti Bhavan Publication.
5. मिश्रा , जयदेव : ऐतिहासिक अनुसन्धान, काशी प्रसाद जायसवाल शोध संस्थान , पटना।
6. आहूजा, राम: सामाजिक अनुसन्धान, रावत प्रकाशन, जयपुर।
7. राणा सुनील कुमार सिंह - सामाजिक शोध की पद्धति।
8. सावित्री सिन्हा: अनुसन्धान का स्वरुप, नेशनल पब्लिशिंग हाउस , दिल्ली।
9. विनय मोहन शर्मा: शोध प्रविधि , नेशनल पब्लिशिंग हाउस , दिल्ली।
10. सावित्री सिन्हा: अनुसन्धान की प्रक्रिया , विजयेंद्र स्नातक, हिंदी अनुवाद परिषद्।

MIC-3: आधुनिक हिंदी कविता : छायावाद तक

Course Objectives

इस पत्र के अध्ययन से विद्यार्थी 1850 ई० से 1936 ई० तक की परिचय प्राप्त करने के साथ–साथ उस कालखण्ड के महत्वपूर्ण कवियों के काव्यगत अवदानों से परिचित हो सकेंगे।

	MIC-3 : आधुनिक हिंदी कविता (छायावाद तक) (Theory: 03 Credits)		
Unit	**Topics to be covered**	**No. of Lectures**	**L.T.P 3-1-0**
1	• भारतेन्दु – भारत दुर्दशा निज भाषा उन्नति अहै : प्रारंम्भिक दस दोहे	06	
2	• मैथिलीशरण गुप्त – संतान, सखि वे मुझसे कहकर जाते (यशोधरा)	04	
3	• जय शंकर प्रसाद – आँसू– प्रारंम्भिक आठ छंद	04	
4	• सूर्यकांत त्रिपाठी निराला – भिक्षुक, विधवा	04	
5	• सुमित्रानंदन पंत – प्रथम रश्मि, मौन निमंत्रण	04	
6	• महादेवी वर्मा – जो तुम आ जाते एक बार, मधुर–मधुर मेरे दीपक जल	04	
7	• सुभद्रा कुमारी चौहान–झाँसी की रानी, वीरों का कैसा हो बसंत	04	
	Total	**30**	**L-(30)+T(10)=40**

Course Outcomes

कविता के पाठगत विश्लेषण के द्वारा विद्यार्थी अपनी विश्लेषणात्मक चेतना विकसित कर सकेंगे। साथ ही भारतीय नवजागरण एवं राष्ट्रीय आंदोलन को समझने की एक नयी दृष्टि का भी विकास संभव हो सकेगा। प्रतियोगिता परीक्षा की दृष्टि से भी यह उनके लिए सकारात्मक सिद्ध होगा।

सहायक पुस्तकें :–

1. आधुनिक हिंदी कविता का इतिहास : डॉ. नंद किशोर नवल, भारतीय ज्ञानपीठ, दिल्ली,
2. मैथिलीशरण : डॉ. नंद किशोर नवल, भारतीय ज्ञानपीठ, दिल्ली
3. छायावाद : डॉ. नामवर सिंह, राजकमल प्रकाशन, दिल्ली
4. निराला कृति से साक्षात्कार : नन्द किशोर नवल, राजकमल प्रकाशन, दिल्ली
5. आधुनिक हिंदी कविता : डॉ. विश्वनाथ तिवारी, लोकभारती प्रकाशन, इलाहाबाद

6. महादेवी : इन्द्रनाथ मदान, राधाकृष्ण प्रकाशन, दिल्ली
7. जय शंकर प्रसाद : रमेश चन्द्र शाह, साहित्य अकादेमी, दिल्ली

SEMESTER - IV

MIC - 4: आधुनिक हिन्दी कविता : छायावाद के बाद

COURSE OBJECTIVES

छायावाद के बाद हिन्दी कविता के विकास को समझने के लिए उस दौर के महत्त्वपूर्ण कवियों के व्यक्तित्व एवं कृत्तित्व से अवगत होना जरूरी है। इस काल की कविता की प्रवृत्तियों एवं काव्यगत वैशिष्ट्य को समझने के पश्चात ही विद्यार्थियों की आलोचनात्मक क्षमता का विकास संभव होगा। कविता में हो रहे बदलाव को आत्मसात करने एवं तत्कालीन सामाजिक परिदृश्य से अवगत होने के लिए इस पाठ की आवश्यकता होगी।

MIC - 4: आधुनिक हिन्दी कविता : छायावाद के बाद (Theory: 03 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 3-1-0 Per Week**
1	**केदारनाथ अग्रवाल** – माँझी ! न बजाओ वंशी, वह जन मारे नहीं मरेगा **नागार्जुन** – बादल को घिरते देखा है; शासन की बंदूक; अकाल और उसके बाद	**10**	
2	**रामधारी सिंह 'दिनकर'** – रश्मि रथी (तृतीय सर्ग) **माखनलाल चतुर्वेदी** – झरना; कैदी और कोकिला, नाश का त्यौहार (हिमकिरीटिनी)	**10**	
3	**भवानीप्रसाद मिश्र** – सतपुड़ा के जंगल; गीत–फरोश (दूसरा सप्तक) **रघुवीर सहाय** – पढ़िए गीता; रामदास; हँसो हँसो जल्दी हँसो, नेता क्षमा करें	**10**	
	Total	**30**	**30 (L) + 10 (T) = 40**

Course outcomes

इस पाठ के अध्ययन के पश्चात् विद्यार्थी छायावाद के बाद हिन्दी कविता में हो रहे बदलावों से अवगत होंगे। छायावादोत्तर हिन्दी कविता की प्रवृत्तियों एवं काव्यगत वैशिष्ट्य को समझ सकेंगे। उनकी कविता की समझ एवं आलोचनात्मक क्षमता में वृद्धि होगी। इस दौरान वे इस कालखण्ड के कवियों के व्यक्तित्व एवं कृत्तित्व से भी परिचित होंगे।

सहायक पुस्तकें –

1. प्रतिनिधि कविताएँ : केदारनाथ अग्रवाल, राजकमल प्रकाशन, दिल्ली
2. प्रतिनिधि कविताएँ : नागार्जुन, राजकमल प्रकाशन, दिल्ली
3. कुरुक्षेत्र : रामधारी सिंह दिनकर, राजपाल प्रकाशन, दिल्ली
4. काव्य–कुसुम : सं. गणेशानंद झा, गायत्री देवी, मोतीलाल बनारसी दास प्रकाशन, पटना
5. सन्नाटे का छंद : सं. अशोक वाजपेयी, वाग्देवी प्रकाशन, बीकानेर
6. मन एक मैली कमीज है : सं. नंदकिशोर आचार्य, वाग्देवी प्रकाशन, बीकानेर
7. प्रतिनिधि कविताएँ : रघुवीर सहाय, राजकमल प्रकाशन, दिल्ली
8. चाँद का मुँह टेढ़ा है : ग. मा. मुक्तिबोध, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
9. आधुनिक हिन्दी कविता का इतिहास : नंद किशोर नवल, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
10. कवि अज्ञेयः नंद किशोर नवल, राजकमल प्रकाशन, दिल्ली
11. कविता के नये प्रतिमान : नामवर सिंह, राजकमल प्रकाशन, दिल्ली
12. नयी कविता और अस्तित्ववाद : रामविलाश शर्मा, राजकमल प्रकाशन, दिल्ली
13. तार सप्तक : सं. अज्ञेय, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
14. दूसरा सप्तक : सं. अज्ञेय, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली
15. तीसरा सप्तक : सं. अज्ञेय, भारतीय ज्ञानपीठ प्रकाशन, दिल्ली

16. आधुनिक साहित्य की प्रवृत्तियाँ : नामवर सिंह, लोकभारती प्रकाशन, इलाहाबाद
17. हिन्दी साहित्य और संवेदना का विकास : रामस्वरूप चतुर्वेदी, लोकभारती प्रकाशन, इलाहाबाद
18. आधुनिक हिन्दी साहित्य का इतिहास : लक्ष्मीसागर वार्ष्णेय
19. हिन्दी काव्य समीक्षा के प्रतिमान : महेश तिवारी, वाणी प्रकाशन, दिल्ली

SEMESTER - V

MIC - 5 : भारतीय काव्यशास्त्र

COURSE OBJECTIVES

इस पत्र का उद्देश्य विद्यार्थियों को भारतीय काव्यशास्त्र से परिचित कराना है। साथ ही, वे काव्य के विभिन्न उपकरणों अलंकार एवं छंद का परिचय प्राप्त कर सकेंगे।

MIC - 5 : भारतीय काव्यशास्त्र (Theory: 03 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 3-1-0 Per Week**
1	भारतीय काव्यशास्त्र का सामान्य परिचय, काव्य-लक्षण, काव्य-प्रयोजन	**10**	
2	प्रमुख अलंकारों के लक्षण उदाहरण– श्लेष, यमक, वक्रोक्ति, उपमा, रूपक, उत्प्रेक्षा, अतिशयोक्ति	**10**	
3	प्रमुख छंदों के लक्षण–उदाहरण – दोहा, चौपाई, रोला, सोरठा, कवित्त, सवैया, छप्पय	**10**	
	Total	**30**	**30 (L) + 10 (T) = 40**

Course outcomes

इस पाठ के अध्ययन के पश्चात विद्यार्थी काव्यशास्त्र की मौलिक अवधारणाओं से परिचित होंगे। रस, अलंकार के विभिन्न भेदों एवं उनके उपयोग से भली भांति अवगत हो सकेंगे।

सहायक पुस्तकें –

1. काव्य के तत्व : आचार्य देवेंद्रनाथ शर्मा, लोकभारती प्रकाशन, इलाहाबाद
2. भारतीय साहित्यशास्त्र कोश : डॉ. राजवंश सहाय 'हीरा', बिहार हिंदी ग्रंथ अकादमी, पटना
3. भारतीय आलोचना – शास्त्र : डॉ. राजवंश सहाय 'हीरा', बिहार हिंदी ग्रंथ अकादमी, पटना

4. पाश्चात्य साहित्यशास्त्र कोश : डॉ. राजवंश सहाय 'हीरा', बिहार हिंदी ग्रंथ अकादमी, पटना
5. साहित्यालोचन : डॉ. श्याम सुंदर दास, सस्ता साहित्य मंडल प्रकाशन, नई दिल्ली
6. भारतीय काव्य चिंतन, डॉ. शोभा कांत मिश्र, अनुपम प्रकाशन, पटना
7. पाश्चात्य काव्यशास्त्र : डॉ. तारकनाथ बाली, वाणी प्रकाशन, नई दिल्ली
8. भारतीय काव्यशास्त्र एवं पाश्चात्य साहित्य : चिंतन, डॉ. सभापति मिश्र, जयभारती प्रकाशन, इलाहाबाद
9. पाश्चात्य साहित्य चिंतन : निर्मला जैन, राधाकृष्ण प्रकाशन, नई दिल्ली
10. अरस्तु का काव्यशास्त्र : अनुवादक : डॉ. नगेंद्र एवं महेंद्र चतुर्वेदी, हिंदी अनुसंधान परिषद्, दिल्ली विश्वविद्यालय, नई दिल्ली
11. साहित्यालोचन : सिद्धांत और अध्ययन, डॉ. सीताराम दीन, भारती भवन, पटना
12. पाश्चात्य काव्य चिंतन – डॉ. शोभाकांत मिश्र, अनुपम प्रकाशन, पटना

SEMESTER - V

MIC - 6: हिंदी की साहित्यिक विधाएँ : उद्‌भव और विकास

COURSE OBJECTIVES

हिंदी की साहित्यिक विधाओं के स्वरूप, उद्‌भव एवं विकास की अवधारणा को संपूर्णता में समझाना समझना इस पाठ का मुख्य उद्देश्य है। इस पाठ के माध्यम से विभिन्न साहित्यिक विधाओं की विशिष्टता एवं महत्त्व से विद्यार्थियों को परिचित कराना तथा विभिन्न विधाओं के बीच के अंतर को स्पष्ट करना आवश्यक है ताकि विद्यार्थी विधाओं के विकास एवं आधुनिकता के संबंध को समझ सकें।

MIC - 6 : हिंदी की साहित्यिक विधाएँ : उद्‌भव और विकास (Theory: 03 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 3-1-0 Per Week**
1	साहित्य का स्वरूप : संक्षिप्त परिचय (भेद लक्षण एवं तत्त्व : भारतीय एवं पाश्चात्य मत) हिंदी की साहित्यिक विधाएँ : सामान्य परिचय एवं उद्‌भव और विकास पद्य : महाकाव्य, खण्डकाव्य, मुक्तककाव्य, चम्पूकाव्य, स्फुटकाव्य	10	
2	गीति काव्य, प्रगीत, नयी कविता, नवगीत गद्यः उपन्यास, कहानी, नाटक, एकांकी, निबंध, आलोचना, यात्रा–वृत्तांत	10	

3	पत्र–साहित्य, डायरी, रिपोर्ताज, रेखाचित्र/शब्दचित्र, संस्मरण, जीवनी, आत्मकथा साहित्यिक विधाओं में अंतर • महाकाव्य और खण्डकाव्य • प्रबंध काव्य और मुक्तककाव्य • उपन्यास और कहानी • नाटक और एकांकी • संरमरण और यात्रा–वृत्तांत • जीवनी और आत्मकथा • रेखाचित्र और संस्मरण	10	
	Total	**30**	**30 (L) + 10 (T) = 40**

Course outcomes

इस पाठ के अध्ययन के पश्चात विद्यार्थी साहित्यिक विधाओं के स्वरूप एवं इतिहास के साथ–साथ उनके उद्‌भव एवं विकास की अवधारणा को समझ पायेंगे। वे विभिन्न साहित्यिक विधाओं की विशिष्टता एवं महत्त्व के साथ ही विभिन्न विधाओं के मध्य मौलिक अंतर से अवगत होंगे।

सहायक पुस्तकें –

1. हिंदी साहित्य का इतिहास : रामचंद्र शुक्ल, नागरी प्रचारिणी सभा, काशी
2. हिंदी साहित्य का इतिहास : संपादक डॉ. नगेंद्र, पेपरबैक
3. साहित्यालोचन : डॉ. श्यामसुंदर दास, लोकभारती प्रकाशन, इलाहाबाद
4. कविता क्या है : विश्वनाथ प्रसाद तिवारी, राजकमल प्रकाशन, नयी दिल्ली
5. साहित्य विधाओं की अंत : प्रकृति : डॉ. हरिमोहन
6. हिंदी का गद्य साहित्य : रामचंद्र तिवारी, विश्वविद्यालय प्रकाशन, नयी दिल्ली
7. कविता के नये प्रतिमान : नामवर सिंह, राजकमल प्रकाशन, नयी दिल्ली

8. हिंदी गद्यः विन्यास और विकास, रामस्वरूप चतुर्वेदी, लोकभारती प्रकाशन, इलाहाबाद
9. भारतीय एवं पाश्चात्य काव्य सिद्धांत : गणपति चंद्र गुप्त, लोक भारती प्रकाशन, इलाहाबाद
10. हिंदी उपन्यास का विकास : मधुरेश, लोकभारती, प्रकाशन, इलाहाबाद
11. हिंदी कहानी का विकासः मधुरेश, लोकभारती प्रकाशन, इलाहाबाद
12. हिंदी आलोचना का विकासः मधुरेश, लोकभारती प्रकाशन, इलाहाबाद
13. नयी कविताः नंददुलारे वाजपेयी, लोकभारती प्रकाशन, इलाहाबाद
14. हिंदी साहित्य : उद्भव और विकासः हजारी प्रसाद द्विवेदी, राजकमल प्रकाशन, नयी दिल्ली
15. हिंदी काव्य का इतिहास : रामस्वरूप चतुर्वेदी, राज कमल प्रकाशन, नयी दिल्ली
16. हिंदी नाटक : बच्चन सिंह, राधाकृष्ण प्रकाशन, नयी दिल्ली
17. हिंदी साहित्य कोश : सं. डॉ. धीरेंद्र वर्मा (प्रधान), ज्ञानमंडल लिमिटेड, वाराणसी
18. हिंदी आलोचना की पारिभाषित शब्दावली : डॉ. अमरनाथ, राजकमल प्रकाशन, नयी दिल्ली
19. हिंदी कहानी का विकास : डॉ. गोपाल राय, राजकमल प्रकाशन, नयी दिल्ली
20. साहित्यालोचनः सिद्धांत और अध्ययन – डॉ. सीताराम दीन – भारती भवन, पटना
21. भारतीय काव्य चिंतन, डॉ. शोभाकान्त मिश्र, अनुपम प्रकाशन, पटना
22. पाश्चात्य काव्य चिंतन, डॉ. शोभाकान्त मिश्र, अनुपम प्रकाशन, पटना
23. बोलती रेखाएँ – डॉ. उषारानी सिंह – मांगलिका प्रकाशन, पटना
24. कुरान शरीफ और तुलसीचौरा (रेखाचित्र)– डॉ. उषा रानी सिंह

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SEMESTER - VI

MIC - 7: प्रयोजनमूलक हिंदी

COURSE OBJECTIVES

वर्त्तमान समय में प्रयोजनमूलक हिंदी का अध्ययन हिंदी के विद्यार्थियों के लिए महत्वपूर्ण हो गया है। प्रयोजनमूलक हिंदी के विभिन्न प्रकारों की जानकारी एवं उसके स्वरूप से परिचित होना आज की मांग है। सरकारी कार्यालयों तथा व्यावसायिक प्रतिष्ठानों में हिंदी का प्रयोग करने की विधि को सीखना विद्यार्थियों के लिए आवश्यक हो गया है। इस पाठ्य का मुख्य उद्देश्य प्रयोजनमूलक हिंदी के विभिन्न आयामों से विद्यार्थी को परिचित कराना है।

MIC - 7: प्रयोजनमूलक हिंदी (Theory: 03 Credits)			
Unit	**Topics to be covered**	**No. of Lectures**	**L-T-P 3-1-0 Per Week**
1	प्रयोजनमूलक हिंदी : स्वरूप, व्यवहार क्षेत्र, शैक्षिक संदर्भ : उद्देश्य और सीमा बोलचाल की हिंदी, मानक हिंदी और साहित्यिक हिंदी	**12**	
2	प्रयोजनमूलक हिंदी के प्रमुख प्रकारः न्यायालय में हिंदी, बैंक में हिन्दी रेलवे में हिंदी, विविध सरकारी कार्यालयों एवं संस्थाओं में हिंदी	**06**	
3	भाषा व्यवहार : सरकारी पत्राचार, टिप्पण, प्रारूपण, सार–लेखन, विज्ञापन–लेखन	**12**	
	Total	**30**	**30 (L) + 10 (T) = 40**

Course outcomes

इस पाठ के अध्ययन के पश्चात् विद्यार्थी प्रयोजनमूलक हिंदी के स्वरूप, व्यवहार एवं उनके प्रकारों से अवगत होंगे। साथ ही साथ सरकारी कार्यालयों एवं व्यावसायिक प्रतिष्ठानों में प्रयोग की जाने वाली हिंदी को सीख सकेंगे।

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सहायक पुस्तकें –

1. प्रयोजमूलक हिंदी, माधव सोनटक्कें, लोकभारती प्रकाशन, इलाहाबाद
2. प्रयोजनमूलक हिंदी, रामकिशोर शर्मा, श्यामा प्रकाश, इलाहाबाद
3. हिंदी भाषा का प्रयोजनमूलक स्वरूप, डॉ. चंद्र भाटिया, साहित्य भवन
4. प्रयोजनमूलक भाषा कार्यालयी हिंदी, कृष्ण कुमार गोस्वामी, कलिंगा प्रकाशन, दिल्ली
5. प्रयोजनमूलक कामकाजी हिंदी, डॉ. कैलाश चंद्र भाटिया, तक्षशिला प्रकाशन, नई दिल्ली
6. प्रयोजनमूलक हिंदी : संरचना और अनुप्रयोग, डॉ. रामप्रकाश, डॉ. दिनेश गुप्त, राधाकृष्ण प्रकाशन
7. प्रयोजनी हिंदी, सूर्य प्रसाद दीक्षित, भारत बुक सेंटर, लखनऊ
8. प्रयोजनमूलक हिंदी का अध्ययन, संपादक सुशील गुप्ता, जय भारती प्रकाशन, इलाहाबाद
9. मीडिया की भाषा, वसुधा गाडगिल
10. प्रारूपण, शासकीय पत्राचार और टिप्पण– लेखन विधि, राजेंद्र प्रसाद श्रीवास्तव
11. आधुनिक हिंदी व्याकरण और रचना, डॉ. वासुदेव नंदन प्रसाद भारती भवन, पटना

SEMESTER – VI

MIC – 8 हिन्दी कहानियाँ : पाठ

Course Objective –

कहानी हिन्दी साहित्य की सर्वाधिक नयी विधा है। इस पत्र के अध्ययन के द्वारा हिन्दी कहानी की विकास–प्रक्रिया को समझने में मदद मिलेगी। साथ ही 20वीं शताब्दी के अलग–अलग काल–खण्डों की कहानियों की संवेदना एवं शिल्प से परिचित हो सकेंगे।

(Theory : 3 Credits)

Unit	Topic to be covered	No. of Lectures	L.T.P
1	i) कानों में कंगना : राजा राधिका रमण प्रसाद सिंह ii) नमक का दारोगा : प्रेमचन्द	10	
2.	iii) कहानी का प्लॉट : आचार्य शिवपूजन सहाय iv) कहीं धूप कहीं छाया : बेनीपुरी v) विष के दाँत : आचार्य नलिन विलोचन शर्मा	10	
3.	vi) पंचलाइट : रेणु vii) वापसी : उषा प्रियवदा	10	
	कुल	**30**	L - 30 + T – 10 = **40**

Course Outcome –

इस पत्र के अध्ययन से हिन्दी कहानी के विकास–क्रम के साथ–साथ विविध काल–खण्डों की कहानियों के संवेदनात्मक धरातल की परख की क्षमता विकसित होगी। कहानी निस्संदेह साहित्य की सर्वाधिक मार्मिक विधा है। ऐसी स्थिति में राजा राधिका रमण प्रसाद सिंह से लेकर आचार्य नलिन विलोचन शर्मा, आचार्य शिवपूजन सहाय, प्रेमचंद, बेनीपुरी, जैनेन्द्र, रेणु और उषा प्रियंवदा जैसे उच्च–कोटि के कहानीकारों एवं उनकी कहानियों के विश्लेषण से समृद्ध ज्ञान–चेतना का विकास संभव हो सकेगा।

सहायक पुस्तकें–

1. कहानी : नयी कहानी– नामवर सिंह
2. हिन्दी कहानी का विकास – मधुरेश
3. नयी कहानी, नये सवाल – डॉ॰ सत्यकाम
4. नलिन विलोचन शर्मा, रचना संचयन, सम्पादक– गोपेश्वर सिंह
5. शिवपूजन सहाय रचनावली– बिहार राष्ट्रभाषा परिषद्, पटना
6. प्रतिनिधि कहानियाँ– सम्पादक दिनेश प्रसाद सिंह, मोतीलाल बनारसी दास, पटना
7. दस प्रतिनिधि कहानियाँ– उषा प्रियंवदा, किताब घर, नई दिल्ली

SEMESTER – VII

MIC – 9 हिन्दी उपन्यास : पाठ

Course Objective –

उपन्यास का अर्थ, परिभाषा एवं विशेषताओं से परिचित तथा उपन्यास के तत्वों से अवगत हो सकेंगे, इस पत्र के अध्ययन से हिन्दी उपन्यास के विकास–क्रम में प्रेमचन्द, रेणु और आचार्य शिवपूजन सहाय जैसे उपन्यासकारों के संवेदना और शिल्प की जानकारी प्राप्त करने में समर्थ होंगे।

(Theory : 3 Credits)

Unit	Topic to be covered	No. of Lectures	L.T.P
1	i) निर्मला – प्रेमचन्द	10	
2.	ii) देहाती दुनिया : आचार्य शिवपूजन सहाय	10	
3.	iii) कितने चौराहे – रेणु	10	
	कुल	**30**	L - 30 + T – 10 = **40**

Course Outcome –

इस पत्र के अध्ययन से औपन्यासिक तत्वों के साथ–साथ हिन्दी उपन्यास के विकास–क्रम की जानकारी समृद्ध होगी। हिन्दी उपन्यास के क्षेत्र में प्रेमचन्द स्थापित उपन्यासकार हैं। हिन्दी उपन्यास का वास्तविक आरंभ प्रेमचन्द से होता है। ऐसी स्थिति में प्रेमचन्द के साथ–साथ बाद के उपन्यासकारों यथा– रेणु, और आचार्य शिवपूजन सहाय की सृजन प्रक्रिया को समझने में समर्थ सिद्ध होंगे।

सहायक ग्रन्थ–

1. निर्मला, प्रेमचन्द, राजकमल प्रकाशन, नई दिल्ली
2. कितने चौराहे, फणीश्वरनाथ रेणु, राजकमल प्रकाशन, नई दिल्ली
3. देहाती दुनिया– आचार्य शिवपूजन सहाय
4. प्रेमचन्द और उनका युग, रामविलास शर्मा, राजकमल प्रकाशन, नई दिल्ली
5. उपन्यास की संरचना, गोपाल राय, राजकमल प्रकाशन, नई दिल्ली
6. प्रेमचन्द और भारतीय समाज, नामवर सिंह, राजकमल प्रकाशन, नई दिल्ली

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~~SEMESTER – VIII~~

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MIC- 10 हिन्दी गद्य (विविध विधाएं) : पाठ

Cource objective :-

हिन्दी गद्य की विविध विधाएँ साहित्य के विविध रंगों का पयार्य है। इस पत्र के अध्ययन से कथेतर गद्य की समझ विकसित होगीं निबन्ध, संस्मरण, आत्मकथा, डायरी और जीवनी– साहित्य के अनुशीलन से साहित्यिक समझ को परिपक्व करने में पूरी तरह सक्षम होंगे।

(Theory : 3 Credits)

Unit	Topic to be covered	No. of Lectures	L.T.P
1	(i) मजदूरी और प्रेम : सरदार पूर्ण सिंह (ii) उत्साह : रामचन्द्र शुक्ल	10	
2.	(i) अशोक के फूल : आचार्य हजारी प्रसाद द्विवेदी (ii) आँगन का पंछी : विद्यानिवास मिश्र	10	
3.	(i) रामा : महादेवी वर्मा (ii) किन्नर देश : एक ऐतिहासिक दृष्टि (किन्नर देश में से) : राहुल सांकृत्यायन (iii) हिन्दी कविता और छन्द : रामधारी सिंह दिनकर	10	
	कुल	**30**	L - 30 + T – 10 = **40**

Course Outcome :-

हिन्दी गद्य, साहित्य की नवीनतम विधा है। समकालीन परिप्रेक्ष्य में कथा– साहित्य को ही हिन्दी गद्य का पर्याय मान लिया गया है। लेकिन कथा–साहित्य से इतर भी गद्य की कई मर्मस्पर्शी विधाएँ जो संवेदना और शिल्प के स्तर पर जीवन को झंकृत करने में सक्षम है। प्रस्तुत पत्र के अध्ययन से निश्चय ही गद्य की अन्य विधाओं की मार्मिकता और हृदयस्पर्शिता के धरातल से परिचित होंगे और साहित्य– क्षितिज अत्यन्त समृद्ध होगा।

सहायक ग्रंथ :–

1. हिन्दी गद्य : विन्यास और विकास, – डॉ रामस्वरूप चतुर्वेदी
2. छायावादोत्तर हिन्दी गद्य साहित्य, – विश्वनाथ प्रसाद तिवारी
3. हिन्दी गद्य का विकास – रामचन्द्र तिवारी
4. हिन्दी गद्य का उद्भव और विकास – विजयेन्द्र स्नातक
5. हिन्दी गद्य का विकास– डॉ॰ रामचन्द्र तिवारी, विश्वविद्यालय प्रकाशन, वाराणसी
6. अशोक के फूल– हजारी प्रसाद द्विवेदी, लोकभारती प्रकाशन, इलाहाबाद
7. आँगन का पंछी और बंजारा मन– डॉ॰ विद्यानिवास मिश्र, वाणी प्रकाशन, दिल्ली
8. अतीत के चलचित्र– महादेवी वर्मा, राजकमल प्रकाशन, दिल्ली
9. चिंतामणि भाग–1– रामचन्द्र शुक्ल, लोकभारती प्रकाशन, इलाहाबाद
10. किन्नर के देश में– राहुल संकृत्यान, किताब महल, दिल्ली
11. मिट्टी की ओर– रामधारी सिंह दिनकर, राजकमल प्रकाशन, दिल्ली

September 21, 2023

To,

The Principal Secretary to Governor
Raj Bhavan, Patna.

Sub:-Regarding Submission of proposed course structure and Uniform Syllabus of Pali from 3rd to 8th Semester 4 year Undergraduate courses of Pali (Arts) under CBCS System.

Sir,

In compliance with your letter No. BSU(UGC)-02/2023-1457/GS(I), dated-14.09.2023, a meeting of the panel of experts was held from 20.09.2023 to 21.09.2023 for preparation of syllabus in the subject of Pali. We are submitting the syllabus on 21.09.2023.

Your Sincerely,

21/09/2023

1. **Dr. Sanjay Kumar**
Associate Professor & Head
P.G. Department of Pali
Magadh University, Bodhgaya

21/09/23

2. **Dr. Hanumadishhwar Kr. Singh**
Associate Professor
Department of Pali
B.D. College, P.P.U, Patna

21.09.23

3. **Dr. Manju Kumari,**
Associate Professor
Department of Pali
Nalanda College, Biharsharif,
P.P.U

21.09.23

4. **Dr. Rajesh Kumar Mishra**
Assistant Professor
Department of Pali
Gaya College, Gaya,
Magadh University, Bodhgaya

21-09-2023

5. **Dr. Arvind Kumar Singh**
Assistant Professor
Department of Pali
R.L.S. Y College, Aurangabad
Magadh University, Bodhgaya

6. **Dr. Dilip Kumar**
Assistant Professor
Department of Pali
A.M College, Gaya,
Magadh University, Bodhgaya

21/09/23

Pāli

(A) Major Core Courses (MJC)

Sl. No.	Sem	Type Of Course	Name Of Course	Credits	Marks	L-T-P
1	I	MJC-1	Introduction to Pāli language and literature (Canon and Non-Canon)	6	100	6-1-0
2	II	MJC-2	Elementary Grammar of Pāli ,SaccaSangaho,Dhammapada(First Five Chapters), Sutta Nipāta(UragaVagga)	6	100	6-1-0
3	III	MJC-3	Sutta Literature-1	5	100	5-1-0
4	III	MJC-4	Vinaya Literature.	4	100	3-1-0
5	IV	MJC-5	Abhidhamma Literature	5	100	5-1-0
6	IV	MJC-6	Linguistics, Grammar and Composition, prosody, Rhetoric, Nipāta.	5	100	5-1-0
7	IV	MJC-7	Anupitaka Literature and VansaLiterature(Milindapañho, DīpaVansa,Mahāvansa)	5	100	5-1-0
8	V	MJC-8	AtthakathāLiterature(Buddha dutta,Buddhaghosa and Dhammapāla),Visuddhimaggo(SīlaNiddesa)	5	100	5-1-0
9	V	MJC-9	Sutta Literature-2	5	100	5-1-0
10	VI	MJC-10	Abhidhamma Philosophy.	4	100	4-1-0
11	VI	MJC-11	Pāli Canonical Poetry	5	100	5-1-0
12	VI	MJC-12	Essay Writing in Pāli and Hindi/English,Letter Writing and Translation.	5	100	5-1-0
13	VII	MJC-13	History Of Buddhism in India and abroad, Revival of Buddhism, Ashoka's Inscriptions and Dhamma, Buddhist Tourism.	5	100	5-1-0
14	VII	MJC-14	Research Methodology.	5	100	5-1-0
15	VII	MJC-15	Buddhist Meditation and stress Management,.	6	100	6-1-0
16	VIII	MJC-16	Engaged Buddhism	4	100	4-1-0

Sub Total=80

SEMESTER-III

Major Course (MJC-03)

Credit-5 (Lecture-5, Tutorial-1)

Sutta Literature-1

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dīghanikāya:** Brahmajāla Sutta, Mahāparinibbāna Sutta	15
Unit-2	**Majjhimanikāya:-** Mulapariyāya Sutta, Sabbāsava Sutta, Sāmmādiṭṭhi Sutta Satipaṭṭhāna Sutta	15
Unit-3	**Saṁyuttanikāya:** Devatāsaṁyutta (First 10 Suttas)	05
Unit-4	**Suttanipāta:** Brāhmandhammika Sutta, Pabbajā Sutta, Sundarika Bhāradwāja Sutta, Vāseṭṭha Sutta.	10
Unit-5	**Jātaka:** Kuraṅgamiga Jātaka, Rajovāda Jātaka	05
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dīghanikaya Vol. I, Bhikshu J. Kashyap (Ed.) Nalanda Editions, Nalanda, 1985.
2. Majjhimanikāya Vol. I, Bhikshu J. Kashyap (Ed.), Nalanda.
3. Dīghanikāya Pāli (Hindi Translation), Vol.I, Dwarikadasa Shastri, Bauddha Barati, Varanasi.
4. Majjhimanikayapali (Hindi Translation) Vol. I, Dwarikadas Shastri, Bauddha Barati, Varanasi.
5. Dialogues of Buddha, Vol. I, T.W. Rhys David, PTS, Landon, 1921.
6. Middle Length Sayings, Vol.I, T.W Rhys Davids, PTS, Landon, 1921.
7. Suttanipata, Bhikshu Dharmarakshita, Motilal Banarasidas.
8. The Sacred Books of the East, Vol. 10, F. Max Muller, Motilal Banarsidas Publishing House.
9. Jātaka (Hindi), Bhadanta Anand Kausalyayana, Sahitya sammelana, Prayag.
10. Samyuttanikāya, Bhikshu J. Kasyap, Nalanda Edition Nalanda.
11. Samyuttanikāya (Hindi Tr.), Bhikshu J. Kasyap & Bhikshu Dharmarakshit.

① 21/09/2023 ② 21/09/23 ③ 21.09.23 ④ 21.9.23 ⑤ 21-09-23 ⑥ 21/9/23

SEMESTER-III

Major Course (MJC-04)

Credit-4 (Lecture-4, Tutorial-1)

Vinaya Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Mahāvagga:** Mahā khaṁdhaka, Uposatha Khaṁdhāka	10
Unit-2	**Cullavagga:** Kamma khaṁdhaka, Panchasatika khaṁdhaka, Sattasatika khaṁdhaka	10
Unit-3	**Pātimokkha:** Bhikkhu Pātimokkha,Bhikkhunī Pātimokkha	10
Unit-4	**Technical Terms:** Vassāvāsa, Uposath, Chattāronissaya, Paṭisarṇiyakamma, Pārājika	10
		Total=40

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Bhikshu J. Kashyap, Mahāvagga, Nalanda Editions 1985.
2. Bhikshu J. Kashyap, Cūllavagga, Nalanda Edition, 1956
3. H. Olden berg, Vinaya Pitaka (I, II & III), PTS, London Oxford, (1969, 1993, 1995)
4. Dwarikadas Shastri, Mahāvagga Pāli, Baudhha Bharati, Varanasi.
5. Dwarikadas Shastri, Cullvagga Pāli, Bauddha Bharati,Varanasi.
6. Rahul Sankrityayan, Vinaya Pitaka (Hindi Tra.), Mahabodhisabha, Sarnath, Varanasi.
7. Swami Dwarikadas Shastri (Ed.), Pātimokkha, Bauddha Bharati, Varanasi.
8. Bhagchandra Jain (Ed.) Patimokkha, Mahatma Prakashan, Nagpur, 1966

(1) 21/09/2023 (2) 21/09/23 (3) 21.09.23 (4) 21.09.23 (5) 21-09-23 (6) 21/9/23

SEMESTER-IV

Major Course (MJC-05)

Credit-5 (Lecture-4, Tutorial-1)

Abhidhamma Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dhammasaṁgaṇī:** Cittupādakanda	10
Unit-2	**Vibhaṁga:** Khandhavibhaṁga	10
Unit-3	**Paṭṭhāna** Introduction of 24 Paccaya	10
Unit-4	**Aṭṭhasālinī:** Nidānakathā	10
Unit-5	**Aṭṭhasālinī:** Dwārakathā	10
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dhammasaṁgaṇī, Bhikshu J. Kashyap (Ed.), Nalanda Editions 1960..
2. Dhammasaṁgaṇī, P.V. Bapat & R.D Vadekar (Ed.), Pune, 1940.
3. A Busshist Manual of Psychological Ethics, C.A.F. Rhys Davids (Tr. of Dhammasamgani).
4. Aṭṭhasālinī (AṭṭhayojanaSahita), Ramashankar Tripathi, Sampurnanand Sanskirt University, Varanasi.
5. Aṭṭhasālinī, P.V. Bapat & R.D. Vadekar, Pune, Bhandarkar oriental series, 1942.
6. Abhiddhammatthasaṁgaho, Ramashankar Tripathi & Rewatdhamma, Sampurnanand Sanskrit University, Varanasi.
7. Paṭṭhāna, Bhikshu J. Kasyap, Nalanda Editions, Nalanda.
8. Vibhajjavāda, Brahmadev Narayan Sharma, Sampurnanand Sanskrit University, Varanasi.
9. Bandha Manovigyanr, Brahmdev Narayan Sharma, Sampurnanand Sanskrit University, Varanasi.
10. Vibhaṁgamula Tika, Brahmadev Narayan Sharma, Sampurnanand Sanskrit University, Varanasi.

(1) 21/09/2023 (2) 21/09/23 (3) 21.09.23 (4) 21.09.23 (5) 21-09-23 (6) 21/9/23

SEMESTER-IV

Major Course (MJC-06)

Credit-5 (Lecture-4, Tutorial-1)

Linguistics Grammar and Composition

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Linguistics:** What is Language, Principles of origin of Languages, classification of Languages, Families of Languages with Special Reference to Indo-European Languages place of Pāli in Indo-Aryan Language.	10
Unit-2	**Grammar and Composition:** Sandhi, Samāsa, Upasagga, Paccaya (Apaccabodhakapaccaya, Itthipaccaya)	10
Unit-3	**Prosody:** Anuṭṭhubha, Indavajirā, Upendavajirā Upajāti, Dodhaka, Vaṅsaṭṭha, Toṭaka, Dutavilaṁbita Bhujagappayata, Vasantatilaka, Mālini, Shikharaṇi.	10
Unit-4	**Rhetoric:** Anuppāsa,Yamaka, Upamā, Rūpaka, Vyatireka, Dīpaka, Utpreksha (Parikappana) Saṁdeha, Vibhāvana, Virodhābhāsa.	10
Unit-5	**Nipāta:** Atha, Antara, Alaṁ, Evaṁ, Kadā, Kira, Kudācanaṁ, Kho, Ce, Pana, Mā, Yatha, Vina, Seyyathidaṁ.	10
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1. Bhasha Vigyana, BholanathTiwari, Allahabad, 1996.
2. BhashaVigyan evam bhasha shastra, Kapildev Dwivedi, Vishwavidyalaya Prakashan, Varanasi.
3. Pāli Mahāvyākarana, Bhikshu. J. Kashyap, , Motilal Banarasidas, Delhi.
4. Pālivyākraṇā, Ram Avadha Pandey, Ravinath Mishra, Motilal Banarasidas, Delhi, 1977.
5. Dhammaratan, Vuttodaya, Dhammpal Publication, Sarnath, 1965.
6. Baudhālaṁkāra Shastraṁ, Brahmamitra Awasthi, Lal Bahadur Shastri, Central Sanskrita Vidhyapita, Delhi.
7. Pālinipāta Samuccaya, Brajmohan Pandey Nalin, Bharvi Prakashan, Gaya, 1983

SEMESTER-IV

Major Course (MJC-07)

Credit-5 (Lecture-5, Tutorial-1)

Anupiṭaka and Vaṁsa Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	Introduction of Anupiṭaka Literature	05
Unit-2	**Milindapañho** Bāhira Kathā, Lakkhaṇapañho, Vimatticchedanapañho	30
Unit-3	**Dīpavaṁsa-** Introduction of Dīpavaṁsa	05
Unit-4	**Mahāvaṁsa** Introduction of Mahāvaṁsa	05
Unit-5	First, Second, Third Buddhist Council On the basis of Dīpavaṁsa and Mahāvaṁsa	05
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1. Pāli Sahitya ka Itihas, Bharat Singh Upadhyay, Hindi Sahitya Sammelon Prayag, 1986.
2. Milindapañha Pāli, Swami Dwarikadas shastri, Bauddha Bharati, Varanasi.
3. Milindaprashna (Hindi Tr.), Bhikshu J. Kasyap, Sugat Prakashan, Nagpur.
4. Questions of King Milinda Vol. I & II (Tr.), T.W. Rhys Davids, MotilalBanarasidas, Delhi.
5. Mahavaṁsa, Bhadant Anand Kosalyayan, Gautam Book Centre, Delhi.
6. Dīpavamsa, Valmiki Prasad, Samyaka Prakashan, Delhi.

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SEMESTER-V

Major Course (MJC-08)

Credit-5 (Lecture-4, Tutorial-1)

Atthakathā Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	Introduction of Aṭṭhakathā Literature	10
Unit-2	**Life and work of commentators (Aṭṭhakathākār)** (a) Buddhadatta (b) Buddhaghosa (c) Dhammapala	20
Unit-3	**Visuddhimagga** Sīlaniddesa.	20
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Pali Sahitya ka Itihas, Bharat Singh Upadhyaya Hindi Sahitya Sammelan, Prayag, 1986.

2. Visuddhimagga, Swami Dwarikadas Shastri, Bauddha Bharati, Varanasi.

3. The Path of Purity, Pe Maung Tin, Vol. I, PTS, London, 1975.

4. Path of Purification, Bhikkhu ñāṇamoli, kandy, Srilanka.

5. Vishuddhi Marga, Bhikkhu Dhammarakshita, Mahabodhi Sabha, Sarnath.

(1) (2) (3) (4) (5) (6)

SEMESTER-V

Major Course (MJC-09)

Credit-5 (Lecture-5, Tutorial-1)

Sutta Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dīghanikāya:** Sāmaññaphala Sutta, Kuṭadanta Sutta Poṭṭhapāda Sutta	15
Unit-2	**Majjhimanikāya:** Vattha Sutta, Alagaddupaṁ Sutta, Mahadukkhandha Sutta	15
Unit-3	**Saṁyuttanikāya:** Māra Saṁyutta (1st 10 Sutta)	10
Unit-4	**Jātaka:** Suṁsumāra Jātaka, Mahāvesaṅtara Jātaka Bāveru Jātaka	10
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dīghanikaya Vol. I, Bhikshu J. Kashyap (Ed.) Nalanda Editions, Nalanda, 1985.
2. Majjhimanikāya Vol. I, Bhikshu J. Kashyap (Ed.), Nalanda.
3. Dīghanikāya Pāli (Hindi Translation), Vol.I, Dwarikadasa Shastri, Bauddha Barati, Varanasi.
4. Majjhimanikayapali (Hindi Translation) Vol. I, Dwarikadas Shastri, Bauddha Barati, Varanasi.
5. Dialogues of Buddha, Vol. I, T.W. Rhys David, PTS, Landon, 1921.
6. Middle Length Sayings, Vol.I, T.W Rhys Davids, PTS, Landon, 1921.
7. Suttanipata, Bhikshu Dharmarakshita, Motilal Banarasidas.
8. The Sacred Books of the East, Vol. 10, F. Max Muller, Motilal Banarsidas Publishing House.
9. Jātaka (Hindi), Bhadanta Anand Kausalyayana, Sahitya sammelana, Prayag.
10. Samyuttanikāya, Bhikshu J. Kasyap, Nalanda Edition Nalanda.
11. Samyuttanikāya (Hindi Tr.), Bhikshu J. Kasyap & Bhikshu Dharmarakshit.

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SEMESTER-VI

Major Course (MJC-10)

Credit-4 (Lecture-4, Tutorial-1)

Abhidhamma Philosophy

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dhammasaṁgaṅī** Nikkhepakanda	10
Unit-2	**Abhidhammattha Saṁgaho-I** Citta, Cetasika	10
Unit-3	**Abhidhammattha Samgaho-II** Rūpa, Nibbāna	10
Unit-4	**Sanskrit Abhidhamma Literature** Abhidharmakosha (1-15 Kārikā)	10
		Total=40

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dhammasaṁgani, Bhikshu. J. Kashyapa (Ed.), Nalanda Edition, 1960
2. Dhammasaṁgani, P.V. Bapat& R.D Vadekar (Ed.), Pune, 1940.
3. Abhidhammatthasaṁgaho, Navneeta Tika, Dharmanand Kosambi, Mahabodhi Society, Sarnath, Varanasi.
4. Abhidhamma Philosophy, Bhikshu J. Kashyap, BhartiyaPrakashan, New Delhi.
5. A Manual of Abhidharma, NaradaThera, Buddhist Publication society, Kandy, Srilanka.
6. Abhidharmakosa, Vol-I, Swami Dwarikadas Shastri, Bauddha Bharati, Varanasi.
7. Analytical Studies of the Abhidharmakosa, Sukomal Chaudhary, Sanskrit College, Kolkata.
8. Abhidhammatthasaṁgaho, Ramashankar Tripathi & Rewatdhamma, Sampurnanand Sanskrit University, Varanasi.

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SEMESTER-VI

Major Course (MJC-11)

Credit-5 (Lecture-5, Tutorial-1)

Pāli Canonical Poetry

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Suttanipāta:** Aṭṭhaka Vagga	20
Unit-2	**Dhammapada:** Buddhavagga, Sukhavagga, Maggavagga	10
Unit-3	**Theragāthā:** Sāriputta Thera, Aṅgulimāla Thera, Mahāmoggalāna Thera, Tālaputta Thera	10
Unit-4	**Therigāthā:** Mahāpajāpati Gotami Theri, Ambapāli Theri, Patācāra Theri, Khema Theri, Sujātā Theri.	10
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Suttanipāta, Bhikshu Darmarakshit, Motilal Banarasidas, Delhi.

2. Dhammapada, Bhikhu Dharmarakshit, Motilal Banarasidas, Delhi.

3. Theragāthā, Therigatha, Swami Dwārikadas Shastri, Bauddha Bharti, Varanasi, 2003.

4. The Sacred Books of the East, Vol, 10, PTS, F. Maxnullar, London.

(1) 21/09/2023 (2) 21/09/23 (3) 21.09.23 (4) 21.09.23 (5) 21-09-23 (6) 21/9/23

SEMESTER-VI

Major Course (MJC-12)

Credit-5 (Lecture-5, Tutorial-1)

Essay Writing and Translation

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Essay writing in Pāli :** (Essay related to Buddha and Buddhist Philosophy)	20
Unit-2	**Essay writing in Hindi/English:** (Essay regarding Buddhist Philosophy, Buddhist Literature and Ancient Indian History)	10
Unit-3	**Letter Writing/Application**	10
Unit-4	**Translation:** (1) Pāli to Hindi/English (2) Hindi/English to Pāli	10
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1. Pāli Nibandhāvali, Harishankara Shukla, Tara Publication, Varanasi.

2. Bālāvatāra, Swami Dwarikadas Shastri, Bauddha Bharati, Varanasi.

3. Pāli Mahāvyakaraṇa, Bhikshu J. Kashyap, Motilal, Banarasidas.

4. Pāli vyakaraṇa, Bhikshu Dharmarakshit, Gyanmandal, Ltd.

5. Prachin Bharat ka Itihas, Radhakrishna Chaudhary, Bharati Bhawan, Noida, 2017.

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SEMESTER-VII

Major Course (MJC-13)

Credit-5 (Lecture-5, Tutorial-1)

History of Buddhism in Indian and Abroad

Unit-No.	Topics to be covered	Credit/Hours
Unit-1	**History of Buddhism in India and Abroad:** 1. Origin & Development of Buddhist Sangha 2. Buddhist Councils held in India 3. Buddhist Sects 4. Ashoka & the Expansion of Buddhism 5. Gradual Decline of Buddhism in India	20
Unit-2	**Revial of Buddhism in India:** Cunningham, James Princep, Anagarika Dhammapal, Rahul Sankrityayan, J. Kashyap, Bhadant Anand Kaushalyayan, Bhim Rao Ambedkar.	10
Unit-3	**Ashoka's Inscriptions and Dhamma:** 1. Seven pillar Edics of Ashoka 2. Ashoka's Dhamma	10
Unit-4	**Buddhist Tourism:** Buddhist sites- Lumbini, Bodhgaya, Sarnath, Kushinagar, Nalanda, Rajgir, Vaishali, Kesariya, Sanchi, Shravasti, Koshambi, Ajanta-Ellora.	10
		Total=50

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1 Pali Sahitya ka itihāsa, Bharat Singh Upadhyaya, Hindi Sahitya Samelon Prayag.
2. History of Pali Literature,B.C Law, Vol, I & II.
3. History of Indian Literature, M. Winternitz, Vol-II.
4. Study in the History of Buddhism, A.K. Narayan, Varanasi.
5. Studies in the origins of Buddhism, G.C. Pandey, Motilal Banarasidas, New Delhi.
6. Bauddha Dharma ke vikās ka itihas, G.C Pandey, Lucknow.
8. 'Ashok', Radhakumud Mukhargi, Motilal Banarsidas, Patna.
9. Ashok Ke Abhilekha V.M Barua,.
10. 2500 years of Buddhism, V.P. Bapat, Publication Division, Govt. of India.
11. Buddhakalin Bhartiya Bhoogol, Bharat Singh Upadhayaya, Hindi Sahitya Samelon Prayag.

SEMESTER-VII

Major Course (MJC-15)

Credit-6 (Lecture-6, Tutorial-1)

Buddhist Meditation and stress Management

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Theory of Vipassana Meditation:** Suttas: Satipatthāna Sutta, Metta Sutta (Brahmavihar)	15
Unit-2	**Practice of Samath Meditation** Kammaṭṭhāna practice (Sīla) Understanding Jhānas	15
Unit-3	**Practice of Vipassana Meditation** Ānāpāna Sati Ālambana Kāyānupassanā, Vedanānupassanā Cittānupassanā, Dhammānupassanā	15
Unit-4	**Stress Management Through Buddhist Meditation practice**	15
		Total=60

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1 Mahasatipatthāna Sutta, S.N. Goenka, V.R.I. Publication, Igatpuri (Mh.).
2. Dharma-Its true Nature, S.N. Goenka, V.R.I, Publication, Igatpuri.
3. Art of Living, Willium hart, taught by S.N. Goenka, V.R.I, Publication, Igatpuri.
4. Rahulovada Sutta (Majjhima Nikaya).
5. Suttanipāta, Bhikshu Dharma Rakshita, Motilal Banarasidas, Delhi.

SEMESTER-VIII

Major Course (MJC-16)

Credit-4 (Lecture-4, Tutorial-1)

Engaged Buddhism

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Indroduction to Buddhism and its socially Engages Aspects:** Socially Engaged aspects of Buddhism (From Theravāda and Mahāyana sources): Refutation of caste and gender.	10
Unit-2	**Interdisciplinary Role of Buddhism:** Buddhist Engagement with state, politics and public administration, economics and management Buddhist engagements with science, Psychology and Ecology.	10
Unit-3	**Resurgence of Buddhism in India:** Resurgence of Buddhism in modern India Non Ambedkarite Buddhist movements, individual and institutional contribution. New Buddhist movement.	10
Unit-4	**Buddhism in the Modern world:** Socially Engaged Buddhism in countries with Theravāda Background-Sri Lanka, Thailand, Myanmar etc. Socially Engaged Buddhism in countries with Mahāyān Background: China, Taiwan, Victnam, Japan,Korea, Mangolia.	10
		Total=40

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1. Narda, (1988). The Buddha and His Teachings, Malaysia, BMS.
2. Narasu, P.L., 1993, The Essence of Buddhism, Delhi
3. Ambedkar, B.R., 1984 (1957), The Buddha and His Dhamma, Bombay, Siddharth publication.
4. Chakravarti Uma, 1987, The Social Dimensions of Early Buddhism, New Delhi, Oxford University Press.
5. Ahir, D.C. 1972 Buddhism in Modern India Nagpur, Bhikhu Niwas Prakashan.
6. Ling, Trevor, 1979, Buddhism in India, Residual and Resurgent In studies in Pali and Buddhism edited by A.K. Narain, Delhi, B.R Publication.
7. Swaris Nalin, 2011, The Buddha's way to Human Liberation: A socio-Historical Approach, New Delhi, Navayan Publications.

(1) 21/09/2023 (2) 21/09/23 (3) 21-09-23 (4) 21,09,23 (5) 21-09-23 (6) 21/9/23

SEMESTER-III

Minor Course (MIC-03)

Credit-3 (Lecture-3, Tutorial-1)

Sutta Literature-1

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dīghanikāya:** Mahāparinibbāna Sutta	10
Unit-2	**Majjhimanikāya:-** Sabbāsava Sutta, Sāmmādiṭṭhi Sutta	10
Unit-3	**Saṁyuttanikāya:** Devatāsaṁyutta (First 05 Suttas)	05
Unit-4	**Jātaka:** Kuraṅgamiga Jātaka, Rajovāda Jātaka	05
		Total=30

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dīghanikaya Vol. I, Bhikshu J. Kashyap (Ed.) Nalanda Editions, Nalanda, 1985.
2. Majjhimanikāya Vol. I, Bhikshu J. Kashyap (Ed.), Nalanda.
3. Dīghanikāya Pāli (Hindi Translation), Vol.I, Dwarikadasa Shastri, Bauddha Barati, Varanasi.
4. Majjhimanikayapali (Hindi Translation) Vol. I, Dwarikadas Shastri, Bauddha Barati, Varanasi.
5. Dialogues of Buddha, Vol. I, T.W. Rhys David, PTS, Landon, 1921.
6. Middle Length Sayings, Vol.I, T.W Rhys Davids, PTS, Landon, 1921.
7. Suttanipata, Bhikshu Dharmarakshita, Motilal Banarasidas.
8. The Sacred Books of the East, Vol. 10, F. Max Muller, Motilal Banarsidas Publishing House.
9. Jātaka (Hindi), Bhadanta Anand Kausalyayana, Sahitya sammelana, Prayag.
10. Samyuttanikāya, Bhikshu J. Kasyap, Nalanda Edition Nalanda.
11. Samyuttanikāya (Hindi Tr.), Bhikshu J. Kasyap & Bhikshu Dharmarakshit.

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SEMESTER-IV

Minor Course (MIC-04)

Credit-3 (Lecture-3, Tutorial-1)

Vinaya Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Mahāvagga:** Mahā khaṁdhaka	10
Unit-2	**Cullavagga:** Panchasatika khaṁdhaka, Sattasatika khaṁdhaka	10
Unit-3	**Pātimokkha:** Bhikkhu Pātimokkha	10
		Total=30

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Bhikshu J. Kashyap, Mahāvagga, Nalanda Editions 1985.
2. Bhikshu J. Kashyap, Cūllavagga, Nalanda Edition, 1956
3. H. Olden berg, Vinaya Pitaka (I, II & III), PTS, London Oxford, (1969, 1993, 1995)
4. Dwarikadas Shastri, Mahāvagga Pāli, Baudhha Bharati, Varanasi.
5. Dwarikadas Shastri, Cullvagga Pāli, Bauddha Bharati,Varanasi.
6. Rahul Sankrityayan, Vinaya Pitaka (Hindi Tra.), Mahabodhisabha, Sarnath, Varanasi.
7. Swami Dwarikadas Shastri (Ed.), Pātimokkha, Bauddha Bharati, Varanasi.
8. Bhagchandra Jain (Ed.) Patimokkha, Mahatma Prakashan, Nagpur, 1966

(1) 21/09/2023 (2) 21/09/23 (3) 21.09.23 (4) 21.09.23 (5) 21-09-23 (6) 21/9/23

SEMESTER-V

Minor Course (MIC-05)

Credit-3 (Lecture-3, Tutorial-1)

Abhidhamma Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dhammasaṁgiṇī:** Cittupādakaṃda	10
Unit-2	**Vibhaṃiga:** Khandhavibhaṁga	10
Unit-3	**Aṭṭhasālinī:** Nidānakathā	10
		Total=30

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dhammasaṁgaṇī, Bhikshu J. Kashyap (Ed.), Nalanda Editions 1960..
2. Dhammasaṁgaṇī, P.V. Bapat & R.D Vadekar (Ed.), Pune, 1940.
3. A Busshist Manual of Psychological Ethics, C.A.F. Rhys Davids (Tr. of Dhammasamgani).
4. Aṭṭhasālinī (ĀṭṭhayojanaSahita), Ramashankar Tripathi, Sampurnanand Sanskirt University, Varanasi.
5. Aṭṭhasālinī, P.V. Bapat & R.D. Vadekar, Pune, Bhandarkar oriental series, 1942.
6. Abhiddhammatthasaṁgaho, Ramashankar Tripathi & Rewatdhamma, Sampurnanand Sanskrit University, Varanasi.
7. Paṭṭhāna, Bhikshu J. Kasyap, Nalanda Editions, Nalanda.
8. Vibhajjavāda, Brahmadev Narayan Sharma, Sampurnanand Sanskrit University, Varanasi.
9. Bandha Manovigyanr, Brahmdev Narayan Sharma, Sampurnanand Sanskrit University, Varanasi.
10. Vibhaṁgamula Tika, Brahmadev Narayan Sharma, Sampurnanand Sanskrit University, Varanasi.

(1) 21/09/2023 (2) 21/09/23 (3) 21-09-23 (4) 21.09.23 (5) 21-09-23 (6) 21/9/23

SEMESTER-V

Minor Course (MIC-06)

Credit-3 (Lecture-3, Tutorial-1)

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Linguistics:** What is Language, Principles of origin of Languages, classification of Languages, Families of Languages with Special Reference to Indo-Europian Languages place of Pāli in Indo-Aryan Language.	10
Unit-2	**Grammar and Composition:** Sandhi, Samāsa, Upasagga, Paccaya (Apaccabodhakapaccaya, Itthipaccaya)	10
Unit-3	**Nipāta:** Atha, Antara, Alaṁ, Evaṁ, Kadā, Kira, Kudācanaṁ, Kho, Ce, Pana, Mā, Yatha, Vina, Seyyathidaṁ.	10
		Total=30

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1. Bhasha Vigyana, BholanathTiwari, Allahabad, 1996.
2. BhashaVigyan evam bhasha shastra, Kapildev Dwivedi, Vishwavidyalaya Prakashan, Varanasi.
3. Pāli Mahāvyākarana, Bhikshu. J. Kashyap, , Motilal Banarasidas, Delhi.
4. Pālivyākraṇā, Ram Avadha Pandey, Ravinath Mishra, Motilal Banarasidas, Delhi, 1977.
5. Dhammaratan, Vuttodaya, Dhammpal Publication, Sarnath, 1965.
6. Baudhālaṁkāra Shastraṁ, Brahmamitra Awasthi, Lal Bahadur Shastri, Central Sanskrita Vidhyapita, Delhi.
7. Pālinipāta Samuccaya, Brajmohan Pandey Nalin, Bharvi Prakashan, Gaya, 1983

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SEMESTER-VI

Minor Course (MIC-07)

Credit-3 (Lecture-3, Tutorial-1)

Anupiṭaka and Vaṁsa Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	Introduction of Anupiṭaka Literature	05
Unit-2	**Milindapañho** Lakkhaṇapañho	05
Unit-3	**Dīpavaṁsa-** Introduction of Dīpavaṁsa	05
Unit-4	**Mahāvaṁsa** Introduction of Mahāvaṁsa	05
Unit-5	First, Second, Third Buddhist Council On the basis of Dīpavaṁsa and Mahāvaṁsa	10
		Total=30

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:-

1. Pāli Sahitya ka Itihas, Bharat Singh Upadhyay, Hindi Sahitya Sammelon Prayag, 1986.
2. Milindapañha Pāli, Swami Dwarikadas shastri, Bauddha Bharati, Varanasi.
3. Milindaprashna (Hindi Tr.), Bhikshu J. Kasyap, Sugat Prakashan, Nagpur.
4. Questions of King Milinda Vol. I & II (Tr.), T.W. Rhys Davids, MotilalBanarasidas, Delhi.
5. Mahavaṁsa, Bhadant Anand Kosalyayan, Gautam Book Centre, Delhi.
6. Dīpavamsa, Valmiki Prasad, Samyaka Prakashan, Delhi.

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SEMESTER-VI

Minor Course (MIC-08)

Credit-3 (Lecture-3, Tutorial-1)

Aṭṭhakathā Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	Introduction of Aṭṭhakathā Literature	10
Unit-2	**Life and work of commentators (Aṭṭhakathākār)** (a) Buddhadatta (b) Buddhaghosa (c) Dhammapala	10
Unit-3	**Visuddhimagga** Sīlaniddesa.	10
		Total=30

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Pali Sahitya ka Itihas, Bharat Singh Upadhyaya Hindi Sahitya Sammelan, Prayag, 1986.

2. Visuddhimagga, Swami Dwarikadas Shastri, Bauddha Bharati, Varanasi.

3. The Path of Purity, Pe Maung Tin, Vol. I, PTS, London, 1975.

4. Path of Purification, Bhikkhu ñāṇamoli, kandy, Srilanka.

5. Vishuddhi Marga, Bhikkhu Dhammarakshita, Mahabodhi Sabha, Sarnath.

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SEMESTER-VII

Minor Course (MIC-09)

Credit-4 (Lecture-4, Tutorial-1)

Sutta Literature

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dīghanikāya:** Sāmaññaphala Sutta, Kuṭadanta Sutta	15
Unit-2	**Majjhimanikāya:** Vattha Sutta, Alagaddupaṁ Sutta	15
Unit-3	**Jātaka:** Suṁsumāra Jātaka, Bāveru Jātaka	10
		Total=40

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dīghanikaya Vol. I, Bhikshu J. Kashyap (Ed.) Nalanda Editions, Nalanda, 1985.
2. Majjhimanikāya Vol. I, Bhikshu J. Kashyap (Ed.), Nalanda.
3. Dīghanikāya Pāli (Hindi Translation), Vol.I, Dwarikadasa Shastri, Bauddha Barati, Varanasi.
4. Majjhimanikayapali (Hindi Translation) Vol. I, Dwarikadas Shastri, Bauddha Barati, Varanasi.
5. Dialogues of Buddha, Vol. I, T.W. Rhys David, PTS, Landon, 1921.
6. Middle Length Sayings, Vol.I, T.W Rhys Davids, PTS, Landon, 1921.
7. Suttanipata, Bhikshu Dharmarakshita, Motilal Banarasidas.
8. The Sacred Books of the East, Vol. 10, F. Max Muller, Motilal Banarsidas Publishing House.
9. Jātaka (Hindi), Bhadanta Anand Kausalyayana, Sahitya sammelana, Prayag.
10. Samyuttanikāya, Bhikshu J. Kasyap, Nalanda Edition Nalanda.
11. Samyuttanikāya (Hindi Tr.), Bhikshu J. Kasyap & Bhikshu Dharmarakshit.

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SEMESTER-VIII

Minor Course (MIC-10)

Credit-4 (Lecture-4, Tutorial-1)

Abhidhamma Philosophy

Unit No.	Topics to be covered	Credit/Hours
Unit-1	**Dhammasaṁgaṇī** Nikkhepakanda	10
Unit-2	**Abhidhammattha Saṁgaho-I** Citta	15
Unit-3	**Abhidhammattha Saṁgaho-II** Rūpa, Nibbāna	15
		Total=40

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

Reference Book:

1. Dhammasaṁgani, Bhikshu. J. Kashyapa (Ed.), Nalanda Edition, 1960
2. Dhammasaṁgani, P.V. Bapat& R.D Vadekar (Ed.), Pune, 1940.
3. Abhidhammatthasaṁgaho, Navneeta Tika, Dharmanand Kosambi, Mahabodhi Society, Sarnath, Varanasi.
4. Abhidhamma Philosophy, Bhikshu J. Kashyap, BhartiyaPrakashan, New Delhi.
5. A Manual of Abhidharma, NaradaThera, Buddhist Publication society, Kandy, Srilanka.
6. Abhidharmakosa, Vol-I, Swami Dwarikadas Shastri, Bauddha Bharati, Varanasi.
7. Analytical Studies of the Abhidharmakosa, Sukomal Chaudhary, Sanskrit College, Kolkata.
8. Abhidhammatthasaṁgaho, Ramashankar Tripathi & Rewatdhamma, Sampurnanand Sanskrit University, Varanasi.

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SEMESTER-I

Multi disciplinary Course (MDC-1)

Credit-3

Pāli-पालि

(1) पालि भाषा एवं साहित्य–सामान्य परिचय।
(2) भगवान बुद्ध का जीवन एवं दर्शन।
(3) धम्मपद–यमकवग्ग, अप्पमादवग्ग।
(4) जातक– राजोवादजातक, कुरंगभिगजातक।
(5) सुत्तनिपात–धनियसुत्त।

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

सन्दर्भग्रन्थ–

(1) पालि साहित्य का इतिहास–भरत सिंह उपाध्याय।
(2) महामानव बुद्ध–राहुल सांकृत्यायन।
(3) धम्मपद–भिक्षु धर्मरक्षित,
(4) सुत्तनिपात–भिक्षु धर्मरक्षित।
(5) जातक– भदन्त आनन्द कौसल्लयायन।

SEMESTER-II

Multi disciplinary Course (MDC-2)

Credit-3

Pāli-पालि

MDC-2

(1) पालि भाषा एवं साहित्य का परिचय।
(2) चार आर्य सत्य एवं अष्टांगिक मार्ग।
(3) धम्मपद–चित्तवग्ग, पुप्फवग्ग।
(4) बौद्ध संगीतियाँ।
(5) सुत्तनिपात–वसल सुत्त।
(6) जातक–बावेरू जातक, बक जातक।

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

सन्दर्भग्रन्थ–

(1) पालि साहित्य का इतिहास–भरत सिंह उपाध्याय।
(2) धम्मपद–भिक्षु धर्मरक्षित,
(3) सुत्तनिपात–भिक्षु धर्मरक्षित।
(4) जातक– भदन्त आनन्द कौसल्लयायन।

SEMESTER-III

Multi disciplinary Course (MDC-3)

Credit-3

Pāli-पालि

MDC-3

(1) पालि त्रिपिटक एवं अनुपिटक साहित्य
(2) प्रतीत्यसमुत्पाद।
(3) धम्मपद–बालवग्ग, पण्डितवग्ग।
(4) सुत्तनिपात–ब्राह्मणधम्मिकसुत।
(5) थेरीगाथा–अम्बपालि थेरी, महापजापतिगोतमी थेरी।
(6) जातक–सुंसुमारजातक, महावेस्सन्तरजातक।

Total Marks=100 Written Exam=70 Internal Assessment=30

The Question paper pattern shall consist of three parts:

Part A- Compulsory-consisting of objectives/multiple choice type-each carrying 2 marks 10x2=20 marks

Part B-Short answer type- Four questions to be answered out of six questions-each carrying 5 marks 4x5= 20 marks

Part C- Long answer type-Three questions to be answered out of five questions- each carrying 10 marks-3x10= 30 Marks.

सन्दर्भग्रन्थ–

(1) पालि साहित्य का इतिहास–भरत सिंह उपाध्याय।
(2) धम्मपद–भिक्षु धर्मरक्षित,
(3) सुत्तनिपात–भिक्षु धर्मरक्षित।
(4) जातक– भदन्त आनन्द कौसल्लयायन।
(5) थेरगाथा एवं थेरीगाथा– द्वारिका दास शास्त्री।

① 21/09/2023 ② 21/09/23 ③ 21.09.23 ④ 21.09.23 ⑤ 21-09-23 ⑥ 21/9/23

To,

The Principal Secretary
Raj Bhavan, Bihar, Patna

Sub:- Regarding submission of proposed course structure and uniform syllabus of Urdu for III[rd] to VIII[th] Semester of 4-Year undergraduate.

Ref.:-Letter No. BSU(UGC)-02/2023-1457/GS(I) dated 14.09.2023

Sir,

In Compliance with your letter no. BSU(UGC)-02/2023-1457/GS(I) dated 14.09.2023 followed by above mentioned letter no, we are submitting the proposed course structure and syllabus of Urdu for III[rd] to VIII[th] Semester of 4-Year undergraduate course system as per UGC regulations.

Yours Faithfully,

Encl.- As above.

21/9/23
(Prof. Jamil Akhtar)
Professor, P.G. Dept. of Urdu

21/9/23
(Md. Shahab Zafar Azmi)
Associate Professor

Sami Ahmad 21.09.2023
(Dr. Sami Ahmad)
Professor & Head (Additional)

21.9.23
Dr. A.M. Hashmi
Professor (Additional)

21/9/23
Dr. Zarnigar Yasmeen
Assistant Professor/ P.G. Head (Additional)

21.9.23
Dr. Shahid Raza Jamal
Associate Professor (Additional)

21.09.2023
Dr. Abul Hai
Assistant Professor (Additional)

21/9/23
Dr. Md. Ehsan
Associate Professor (Additional)

21.9.23
Dr. Abul Lais
Associate Professor (Additional)

21/9/23
Dr. Hamid Ali Khan
Professor (Additional)

21/9/23
Prof. Shaista Anjum Noori
Professor

Semester –III
MAJOR COURSE 3 (MJC-3)
Study of Urdu Nazm (5 Credits) اردو نظم کا مطالعہ

Total Marks:100
Division of Marks:
CIA - 30
ESE - 70
Total- 100
Question Pattern:
There will be three types of Questions divided into three groups:
Group-A — Multiple Type, Objective Questions: 10 x 2=20
Group-B — Four out of six short questions to be answered: 4x5=20
Group-C — Three out of five long questions to be answered: 3 x 10=30
Objective: This paper has been designed with an objective to make the students familiar with the tradition of various forms of Urdu Poetry, and their literary importance.
Course Outcomes:
After completion of the course the students will be able to:
CO 1: Understand origin and development of Urdu Nazm
CO 2: Art of Urdu Nazm writing
CO 3: Understand major trends of Urdu Nazm
CO 4: Be acquainted with some important Nazm writers

MJC 3 Study of Urdu Nazm (5 Credits) اردو نظم کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Urdu Nazm: Fun aur ajza-e-tarkibi aur Urdu Nazm ki Riwayat Anjuman-e Punjab tak اردو نظم: فن اور اجزائے ترکیبی اور اردو نظم کی روایت انجمن پنجاب تک	1	10	8-2-0
2	Nazir Akbar Abadi ki nazmnigari; "Aadminama" ka khusoosimutalea نظیر اکبرآبادی کی نظم نگاری: آدمی نامہ کا خصوصی مطالعہ	1	10	8-2-0
3	Altaf Husain Hali ki nazmnigari; "Barkha rut" ka khusoosimutalea الطاف حسین حالی کی نظم نگاری: برکھا رت کا خصوصی مطالعہ	1	10	8-2-0
4	Perwez Shahidi ki nazmnigari; "Taslees-e-hayat" ka khusoosimutalea پرویز شاہدی کی نظم نگاری: تثلیث حیات کا خصوصی مطالعہ	1	10	8-2-0
5	Jameel Mazhari ki nazmnigari; "Tajrabe" ka khusoosimutalea جمیل مظہری کی نظم نگاری: تجربے کا خصوصی مطالعہ	1	10	8-2-0

Suggested Readings:

1. Urdu Shaeri ka Funnilrteqa: By Farman Fatehpuri
2. Jadeed Shaeri: By Ibadat Barelvi
3. Bihar keNazmnigarSho'ra: By Qamar Azam Hashmi
4. Bazyaft: By Parwez Shahidi
5. Zindagani-e-Benazir By Abdul Ghafoor Shahbaz

معاون کتابیں
1 اردو شاعری کا فنی ارتقا فرمان فتحپوری
2 جدید شاعری عبادت بریلوی
3 بازیافت پرویز شاہدی
4 زندگانی بے نظیر عبدالغفور شہباز

Semester-III
MAJOR COURSE 4 (MJC-4)
Study of Urdu Ghazal (4 Credits) اردو غزل کا مطالعہ
Full Marks: 100

Total Marks:100
Division of Marks:
CIA - 30
ESE - 70
Total- 100
Question Pattern:
There will be three types of Questions divided into three groups:
Group-A — Multiple Type, Objective Questions: 10 x 2=20
Group-B — Four out of six short questions to be answered: 4x5=20
Group-C — Three out of five long questions to be answered: 3 x 10=30
Objective: This paper has been designed with an objective to make the students familiar with the art and tradition of Urdu Ghazal, and study of some important trend setters of Urdu Ghazal
Course Outcomes:
After completion of the course the students will be able to:
CO 1: Understand origin and development of Urdu Ghazal
CO 2: Art of Urdu Ghazal writing
CO 3: Major themes of Urdu Ghazal
CO 4: Some important Ghazal writers

MJC 4 Study of Urdu Ghazal (4 Credits) اردو غزل کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Urdu Ghazal: Fan aur Rawayat. aur Dabistan-e Dehli-o-Lucknowkeimteyazat اردو غزل: فن اور روایت، اور دبستان دہلی و لکھنوکے امتیازات	1	10	8-2-0
2	Wali ki Ghazalgoi; "muflisi sab baharkhotihai" aur "shaghalbehtarhaiishqbazi ka" ka khusoosimutalea ولی کی غزل گوئی:"مفلسی سب بہار کھوتی ہے" اور "شغل بہتر ہے عشق بازی کا" کا خصوصی مطالعہ	1	10	8-2-0
3	Meer ki Ghazalgoi; "nazuki us ke lab ki kyakahiye" aur "ulti ho gain sab tadbeeren" ka khusoosimutalea میر کی غزل گوئی:" نازکی اس کے لب کی کیا کہیے" اور "الٹی ہوگئیں سب تدبیریں" کا خصوصی مطالعہ	1	10	8-2-0
4	Shad Azimabadiki Ghazalgoi; "ab bhi ek umr pe jeene ka naandazaaya" aur "dhundogay agar mulkonmulkon" ka khussosimutalea شاد عظیم آبادی کی غزل گوئی:"اب بھی ایک عمر پر جینے کا نہ انداز آیا" اور "ڈھونڈھوگے اگر ملکوں ملکوں" کا خصوصی مطالعہ	1	10	8-2-0

Suggested Readings:

1.	Urdu Ghazal aur Mutala-e Ghazal:	Bylbadat Barelvi
2.	Urdu Ghazal:	By Yusuf Husain Khan
3.	Dilli ka Dabistan-e- Shaeri:	By Nurul Hasan Hashmi
4.	Kalam-e-Shad:	By Qazi Abdul Wadood
5.	Dabistane-Lucknow	By Abullais Siddiqui
6.	Urdu Ghazal ke Aham Mor	By Shamsur Rahman Farooqui

معاون کتابیں

1	اردو غزل اور مطالعہ غزل	عبادت بریلوی
2	اردو غزل	یوسف حسین خاں
3	دلی کا دبستان شاعری	نورالحسن ہاشمی
4	کلام شاد	قاضی عبدالودود
5	دبستان لکھنؤ	ابواللیث صدیقی
6	اردو غزل کے اہم موڑ	شمس الرحمٰن فاروقی

Semester - IV

MAJOR COURSE 5 (MJC-5)

Study of Urdu Masnavi, Marsiya and Qaseeda (5 Credits) مثنوی، مرثیہ اور قصیدہ کا مطالعہ

Full Marks: 100

Total Marks:100

Division of Marks:

CIA -	30
ESE -	70
Total-	100

Question Pattern:

There will be three types of Questions divided into three groups:

Group-A — Multiple Type, Objective Questions: 10 x 2=20

Group-B — Four out of six short questions to be answered: 4x5=20

Group-C — Three out of five long questions to be answered: 3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar with the art and tradition of three important forms of Urdu poetry: *Masnavi, Marsiya* and *Qaseeda*. The paper will also contain study of some important masnavi, *marisya* and *qaseedagos*, and their selected writings

Course Outcomes:

After completion of the course the students will be able to:

CO 1: Understand origin and development of Masnavi, *Marsiya* and *Qaseeda* in Urdu

CO 2: Art of Urdu *masnavi*writing, critical appreciation, and its social importance

CO 3: Art of Urdu *marsiya*writing, critical appreciation, and its social importance

CO 4: Art of Urdu *qaseeda* writing, critical appreciation, and its social importance

CO 5: Be acquainted with some important masnavi, *marsiya* and *qaseeda* writers and their compositions

MJC-5 Study of Urdu Masnavi, Marsiya and Qaseeda (5 Credits)

مثنوی، مرثیہ اور قصیدہ کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Masnavinigari ka fun aur Riwayat aur Mir Hasan ki masnavinigari, "SehrulBayan" ki raushnimein مثنوی نگاری کا فن اور روایت اور میر حسن کی مثنوی نگاری"سحرالبیان کی روشنی میں	1	10	8-2-0
2	Marsiyanigari ka fun aur Riwayat مرثیہ نگاری کا فن اور روایت	1	10	8-2-0
3	Mir Anis ki marsiyanigari; "Jab karbala men dakhla-e shah-e-deenhua" ka khusoosimutalea "میر انیس کی مرثیہ نگاری جب کربلا میں داخلہ شاہ دیں ہوا	1	10	8-2-0
4	Qaseedanigari ka fun aur Riwayat قصیدہ نگارہ کا فن اور روایت	1	10	8-2-0
5	Sauda ki qaseedanigari; "hajv-e asp-e laghar" ka khusoosimutalea سودا کی قصیدہ نگاری"ہجو اسپ لاغر کا خصوصی مطالعہ	1	10	8-2-0

Suggested Readings:

1.	Urdu Masnavi ka Irteqa:	By Abdul Qadir Sarwari
2.	Urdu ki Teen Masnaviyan	By Khan Rasheed
3.	Urdu Marsiye ka Irteqa: Ibteda se Anis tak	By Masihuz Zaman
4.	Urdu Qaseedanigari ka TanqeediJaeza	By Mahmood Ilahi

معاون کتابیں

1	اردو مثنوی کا ارتقا	عبدالقادر سروری
2	اردو کی تین مثنویاں	خان رشید
3	اردو مرثیہ کا ارتقا:ابتدا سے انیس تک	مسیح الزماں
4	اردو قصیدہ نگاری کا تنقیدی جائزہ	محمود الٰہی

Semester-IV

MAJOR COURSE 6 (MJC-6)

Study of Urdu Criticism (5 Credits) اردو تنقید کا مطالعہ

Full Marks: 100

Total Marks:100
Division of Marks:
CIA -30
Theory -70
Total-100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A — Multiple Type, Objective Questions: 10 x 2=20
Group-B — Four out of six short questions to be answered: 5 x4=20
Group-C — Three out of five long questions to be answered: 3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar with the art and tradition of literary criticism, its types, and importance with an overview of the works of some critics

Course Outcomes:

After completion of the course the students will be able to:
CO 1: Understand origin and development of literary criticism in Urdu
CO 2: Important schools of literary criticism in Urdu
CO 3: Hali as a critic
CO4: Imdad Imam Asar as a critic
CO 5: Kalimuddin Ahmad as a critic
CO 6: Syed Ehtasham Hussain as a critic

MJC-6 Study of Urdu Criticism (5 Credits) اردو تنقید کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Tanqeed ki tareef, Urdu main tanqeed ka aaghaz-o-irteqa, Urdu tanqeedkeahamdabistan تنقید کی تعریف، اردو میں تنقید کا آغاز و ارتقا اردو تنقید کے اہم دبستان	1	10	8-2-0
2	Altaf Husain Hali aur "Muqadma-e-Sher-o-Sha'eri" الطاف حسین حالی اور مقدمہ شعر و شاعری	1	10	8-2-0
3	Imdad Imam Asar aur "Kashif-ul-Haqaeque" امداد امام اثر اور کاشف الحقائق	1	10	8-2-0
4	Kalimuddin Ahmad aur "Urdu Tanqeed par ek Nazar" کلیم الدین احمد اور اردو تنقید پر ایک نظر	1	10	8-2-0
5	Syed Ehtasham Hussain aur "TanqidiNazariyat" سید احتشام حسین اور تنقیدی نظریات	1	10	10-2-0

Suggested Readings:

1. Urdu Tanqeed ka Irteqa — By Ibadat Barelvi
2. Tnaqeedi Dabistan — By Salim Akhtar

3.	Jadeed Urdu Tanqeed: Usool-o-Nazariyat	By SharibRudoulvi
4.	Bihar men Urdu Tanqeed	By Ejaz Ali Arshad
5.	Tanqeed kya hai	By Ale Ahmad Suroor
6.	Kalimuddin Ahmad	By Shahab Zafar Azmi

معاون کتابیں

1	اردو تنقید کا ارتقا	عبادت بریلوی
2	تنقیدی دبستان	سلیم اختر
3	جدید اردو تنقید: اصول و نظریات	شارب رودولوی
4	بہار میں اردو تنقید	اعجاز علی ارشد
5	تنقید کیا ہے	آل احمد سرور
6	کلیم الدین احمد	شہاب ظفر اعظمی

Semester-IV
MAJOR COURSE 7 (MJC-7)
Study of Urdu Tanz-o-Mizah (5 Credits) اردو طنزومزاح کا مطالعہ
Full Marks: 100

Total Marks:100
Division of Marks:
CIA -30
ESE -70
Total-100

Question Pattern:
There will be three types of Questions divided into three groups:
Group-A — Multiple Type, Objective Questions: 10 x 2=20
Group-B — Four out of six short questions to be answered: 4x5=20
Group-C — Three out of five long questions to be answered: 3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar with the art and tradition of light essays and humorous writings in Urdu with a short historical development of Tanz-o-mizah as an art of writing.

Course Outcomes:
After completion of the course the students will be able to:
CO 1: Understand origin and development of *tanz-o-mizah in Urdu literature*
CO 2: Art of Urdu *tanz-o-mizah*writing and its social importance
CO 3: Different traits and styles of *tanz-o-mizah*writing
CO 4: Be acquainted with some important *tanz-o-mizah*writers and their contributions

MJC-7 Study of Urdu Tanz-o-Mizah (5 Credits) اردو طنزومزاح کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Urdu men tanz-o-mizah: fun aur Riwayat اردو میں طنز ومزاح فن اور روایت	1	10	8-2-0
2	Akbar Allahabadi ki tanziya-o-mizahiyashaeri اکبر الہ آبادی کی طنزیہ ومزاحیہ شاعری	1	10	8-2-0
3	Patras Bukhari ki mizahnigari (hostel men parhna ki raushni men) پطرس بخاری کی مزاح نگاری(ہاسٹل میں پڑھنا " کی روشنی میں)	1	10	8-2-0
4	Anjum Manpuri ki mizahnigari (Meer Kallu ki gawahi ki raushni men) انجم مانپوری کی مزاح نگاری "میر کلو کی گواہی" کی روشنی میں	1	10	8-2-0
5	Ahmad Jamal Pasha ki mizahniagri (imtihan men naqal ka fun ki raushni men) احمد جمال پاشا کی مزاح نگاری"امتحان میں نقل کا فن کی روشنی میں	1	10	8-2-0

Suggested Readings:
1. Biswi Sadi men Urdu Tanz-o-Mizah — By Nami Ansari
2. Bihar men Urdu Tanz-o-Zarafat — By Sultan Azad
3. Urdu Adab mein Tanz-o-Mizah — By Wazir Agha

4. Urdu Adab men Tanz-o-Mizah ki Riwayat aur Ham-asrRujhanat-By Qamar Rais
5. Anjum Manpuri: Ahwal-o-Aasar By Izhar Khizr
6. Ahmad Jamal Pasha By Zafar Kamali

معاون کتابیں

1	بیسویں صدی میں اردو طنزومزاح	نامی انصاری
2	بہار میں اردو طنز وظرافت	سلطان آزاد
3	اردو ادب میں طنزومزاح	وزیر آغا
4	اردو ادب میں طنزومزاح کی روایت اور ہم عصر رجحانات	قمر رئیس
5	انجم مانپوری: احوال و آثار	اظہار خضر
6	احمد جمال پاشا	ظفر کمالی

SEMESTER-V

Syllabus of Urdu for Four Year Undergraduate Course in CBCS:

MJC 8 (Study of Mirza Ghalib) (Credit-05) مرزا غالب کا مطالعہ

Total Marks:-100

Division of Marks:

CIA	-	30
ESE	-	70
Total	-	100

Question Pattern:

There will be three types of Questions, divided into three groups:

Group-A – Multiple Type Objective Questions: 10X2=20

Group-B – Four out of six short questions to be answered: 4X5=20

Group-C – Three out of five long questions to be answered: 3X10=30

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Know the biography and contributions of Mirza Ghalib.

CO2: Learn the style of Ghalib's poetry.

CO3: Learn the art of explanation of Ghalib's Poetry.

CO4: Learn the art of letter writing of Ghalib.

MJC8 : Study of Mirza Ghalib (Theory: 05 credits)				
Unit	**Topics to be covered**	**Credit**	**No. of Lectures**	**L-T-P**
1	Ghalib Ki Shakhsiyat Aur Halat-E-Zindagi غالب کی شخصیت اور حالات زندگی	01	10	8-2-0
2	Ghalib Ki Ghazalgoi (Deewan-E-Ghalib Ki Ghazalein)غالب کی غزل گوئی i. Koi Ummeed bar nahiaati کوئی امید بر نہیں آتی ii. Ibn-e- Maryam huakare koi ابن مریم ہوا کرے کوئی iii. Dard Minnatkash-e-dawanahua درد منت کش دوا نہ ہوا iv. Ye nathihamariqismat یہ نہ تھی ہماری قسمت کہ وصال یار ہوتا v. Har ek baat pe kehte ho tum ketukya Hai ہر ایک بات پہ کہتے ہو تم کہ تو کیا ہے	01	10	8-2-0
3	GhalibKi Qaseeda Goi with spl. reference to Text, Han mahe-nausunen hum uska naam غالب کی قصیدہ گوئی اور قصیدہ ہاں ماہ نو سنیں ہم اس کا نام	01	10	8-2-0
4	Ghalib keSheyreeImteyazat غالب کے شعری امتیازات	01	10	8-2-0
5	Ghalib ki Khutoot nigari with Spl. reference to Meer Mehdi Majrooh&Mirza Tufta غالب کی خطوط نگاری اورخطوط بنام میر مہدی مجروح اور مرزا تفتہ	01	10	8-2-0
	TOTAL.	05	50	

Suggested Reading:

1. Yadgar-e-Ghalib	Altaf Hussain Hali
2. Zikr-e-Ghalib	Malik Ram
3. Ghalib Shakhs aur Shayar	Majnun Gorakhpuri
4. Mahasin-e- Kalam-e-Ghalib	Abdur Rahman Bijnauri
5. Ghalib Taqleed aurIjtehad	Khursheedul Islam

6.Ghalib keKhutoot	Compl. by Khalique Anjum	
7.Ghalib Shayar –o- Maktoob Nigar	Prof. Noorul Hassan Naqvi	
8.Ghalib Ki Shakhsiyat Aur Shayeri	Prof. Rasheed Ahmad Siddiqui	

معاون کتابیں	
یادگار غالب	الطاف حسین حالی
ذکر غالب	مالک رام
غالب شخص اور شاعر	مجنوں گورکھپوری
محاسن کلام غالب	عبدالرحمٰن بجنوری
غالب تقلید اور اجتہاد	خورشیدالاسلام
غالب کے خطوط	مرتبہ خلیق انجم
غالب شاعر و مکتوب نگار	نورالحسن نقوی
غالب کی شخصیت اور شاعری	رشید احمد صدیقی

SEMESTER-V

Syllabus of Urdu for Four Year Undergraduate Course in CBCS:

MJC-9 (Study of Zuban-o-Adab Ki Taareekh) (Credit:5)

اردو زبان و ادب کی تاریخ کا مطالعہ

Total Marks:-100

Division of Marks:

CIA	-	30
ESE	-	70
Total	-	100

Question Pattern:

There will be three types of Questions divided into three groups:

Group-A – Multiple Type Objective Questions: 10X2=20

Group-B – Four out of six short questions to be answered: 4X5=20

Group-C – Three out of five long questions to be answered: 3X10=30

Course outcomes

After the completion of the course, the student will be able to:

CO1: Understand the history of Urdu language and literature.

CO2: Learn the contributions of early writers from South and North India

CO3: Learn the history of Urdu prose and poetry

CO4: Understand the contributions of Fort William College & Dilli College, Aligarh Tahreek & Progressive movement in Urdu.

MIC 9 : Study of Urdu Zaban-o-Adab ki Tareekh (Theory: 5 credits)				
Unit	**Topics to be covered**	**Credit**	**No. of Lectures**	**L-T-P**
1	Urdu Ki Ibtedai Nash-o-Numa Mein Sufiya-e-Karam Ka Kaam اردو کی ابتدائی نشو ونما میں صوفیائے کرام کا کام	01	10	8-2-0
2	Deccan Mein Urdu Shayari Ka Irteqa دکن میں اردو شاعری کا ارتقا	01	10	8-2-0
3	Shumali Hind Mein Urdu Shayari Ka Irteqa شمالی ہند میں اردو شاعری کا ارتقا	01	10	8-2-0
4	Fort William College & Dilli College فورٹ ولیم کالج اور دلی کالج	01	10	8-2-0
5	Aligarh Tahreek &TaraqquiPasand Tahreek علی گڑھ تحریک اور ترقی پسند تحریک	01	10	8-2-0
	TOTAL	05	50	8-2-0

Suggested Reading:

1. Urdu Ki ibtedaiNasho NumameinSufiyae Karam ka kaam - Moulvi Abdul Haque
2. Deccan Mein Urdu- Nasiruddin Hashmi
3. Dilli Ka Dabistan-e-Shayeri- Noorul Hasan Hashmi.
4. Lucknow Ka dabistan-e-Shayari- Abullais Siddiqui
5. Urdu Mein TarraquiPasandAdabi Tahreek – Khalilur Rahman Azmi
6. Sir Syed aur Aligarh Tahreek- Prof. Khalique Ahmad Nezami
7. Fort William College Ki AdabiKhidmat- Dr. Obaida Begum
8. MarhoomDehli College- Maulvi Abdul Haque
9. Urdu Adab ki TanquediTareekh- ShyedEhtesham Hussain-

معاون کتابیں

اردو کی ابتدائی نشو ونما میں صوفیائے کرام کا کام — مولوی عبدالحق

دکن میں اردو — نصیر الدین ہاشمی

دلی کا دبستان شاعری — نورالحسن ہاشمی

لکھنؤ کا دبستان شاعری — ابواللیث صدیقی

اردو میں ترقی پسند ادبی تحریک — خلیل الرحمٰن اعظمی

سر سید اور علی گڑھ تحریک — خلیق احمد نظامی

فورٹ ولیم کالج کی ادبی خدمات — عبیدہ بیگم

مرحوم دہلی کالج — مولوی عبدالحق

اردو ادب کی تنقیدی تاریخ — سید احتشام حسین

SEMESTER-VI

Syllabusof Urdu for Four Year Undergraduate Course in CBCS:

MJC 10 (Study of Arooz-o- Balaghat& Translation):

عروض وبلاغت اور ترجمہ نگاری

Total Marks:-100

Division of Marks:

CIA - 30
ESE - 70
Total - 100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A – Multiple Type Objective Questions: 10X2=20
Group-B – Four out of six short questions to be answered: 4X5=20
Group-C – Three out of five long questions to be answered: 3X10=30

Objective:

This paper has been designed with an objective to make the students familiar with the importance, tradition of various forms of Arooz-o-Balagher.

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the art and history of Arooz-o-Blaghat.
CO2: Learn the Process of Arooz.
CO3: Learn the Process of Blaghat.
CO4: Learn the techniques& mode of Translation with the Genre.

MJC-10(Study of Arooz-o- Balaghat&Translation)
THEORY: 04 CREDITS

Unit	Topics to be Covered	Credits	No. Of Lectures	L-T-P
1	Study of Arooz-o- Balaghat عروض و بلاغت کا مطالعہ	01	06	4-2-0
2	Definition of Tashbeeh, Isteara, Talmeeh, TajahulArefana, Majaz,Gholoo, Husn-e-Taleel, Kinaya, Mobaleghaetc تشبیہ، استعارہ، تلمیح،تجاہل عارفانہ، مجاز۔ غلو،حسن تعلیل، کنایہ، مبالغہ وغیرہ	01	10	8-2-0
3	Difination of Sabab, Rukn, Wazan, Bahre, Fasla, Wated etc. سبب، رکن، وزن، بحر، فاصلہ، وتد، وغیرہ کی تعریف	01	10	8-2-0
4	Translation:ترجمہ نگاری Tarjuma Ka-Fun Aur Rewayat ترجمہ: فن اور روایت Tarjuma Ki Ahmiyat-O- Efadiat ترجمہ: اہمیت و افادیت Text Translation in Persian to Urdu (Nesab Farsi) &English, Hindi to Urdu (Unseen) اردو، فارسی اور انگریزی و ہندی میں ترجمے کی مشق	01	14	10-4-0
		Total	40	

Books of References :

1. JadeedIlmulArooz- Abdul Majeed
2. JadeedIlmulBalaghatAbdul Majeed
3. TafhimulBalagha- A. Wahab Ashrafi

4. Tarjuma Ke BunyadiMasael-Zoe- Ansari
5. Tarjume Ka-fun AurRewayat-Dr. Qamer Rayees.
6. Urdu Tarjuma Ki Rewayat- Mirza Hamid Beg

معاون کتابیں	
جدید علم العروض	عبدالمجید
جدید علم البلاغت	عبدالمجید
تفہیم البلاغت	وہاب اشرفی
ترجمہ کے بنیادی مسائل	ظ انصاری
ترجمہ کا فن اور روایت	قمر رئیس
اردو ترجمہ کی روایت	مرزا حامد بیگ

SEMESTER -VI
MAJOR COURSE 11 (MJC-11)
Study of Sir Syed Ahmad Khan (5 Credits) سر سید احمد خان کا مطالعہ

Total Marks:100
Division of Marks:
CIA- 30
ESE- 70
Total- 100
Question Pattern:
There will be three types of Questions divided into three groups:
Group-A—MultipleType. Objective Questions: 10 x 2=20
Group-B —Four out of six short questions to be answered: 4x5=20
Group-C — Three out of five long questions to be answered: 3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar withthe life and literary contributions of Sir Syed Ahmad Khan

Course Outcomes:
Aftercompletion ofthecoursethestudents willbeable to:
CO 1: Understand about life and works of Sir Syed Ahmad Khan
CO 2: Sir Syed Ahmad Khan's contributions as a social reformer
CO 3: Sir Syed Ahmad Khan's role in promoting scientific prose in Urdu
CO 4: Sir Syed Ahmad Khan and importance of Aligarh Movement

MJC-11 Study of Sir Syed Ahmad Khan سر سید احمد خان کا مطالعہ

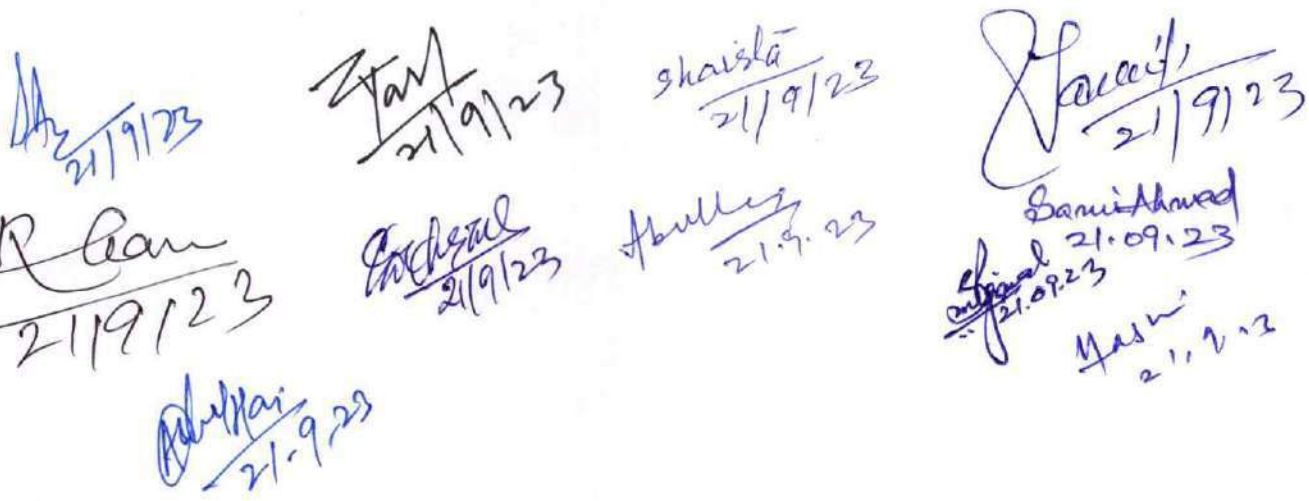
Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Sir Syed: Shakhsiyat aur Hayat سر سید: شخصیت اور حیات	1	10	8-2-0
2	Sir Syed ki Nasrnigari (Mazameen-e-Sir Syed ke hawale se) سر سید کی نثرنگاری (مضامین سر سید کے حوالے سے)	1	10	8-2-0
3	Sir Syed aur Urdu Sahafat سر سید اور اردو صحافت	1	10	8-2-0
4	Sir Syed ke Namwar Rofaqa (Hali, Shibli, Munshi Zakaullah, Nazir Ahmad, Waqarul Mulk, Muhsinul Mulk) سر سید کے نامور رفقا (حالی، شبلی، منشی ذکاء اللہ، نذیر احمد، وقارالملک، محسن الملک)	1	10	8-2-0
5	Sir Syed aur Aligarh Tahreek سرسید اور علی گڑھ تحریک	1	10	8-2-0
TOTAL		**5**	**50**	

Suggested Readings:
6. Hayat-e-Jawed — By Altaf Hussain Hali
7. Sir Syed aur unkay Namwar Rufaqa — By Syed Abdullah
8. Sir Syed Ahmad Khan aur unka Ahd — By Suraiya Hussain
9. Mutala-e Sir Syed — By Maulvi Abdul Haque
10. Sir Syed ki Sahafat — By Asghar Abbas

معاون کتابیں

1	حیات جاوید
2	سر سید اور ان کے نامور رفقا
3	سر سید احمد خاں اور ان کا عہد
4	مطالعۂ سر سید
5	سرسید کی صحافت
6	اردو صحافت اور سرسید احمد خاں

الطاف حسین حالی	
سید عبداللہ	
ثریا حسین	
مولوی عبدالحق	
اصغر عباس	
عبدالحی	



SEMESTER-VI
MAJOR COURSE 12 (MJC-12)
Study of Allama Iqbal (5 Credits) علامہ اقبال کا مطالعہ
Full Marks: 100

Total Marks:100
Division of Marks:
CIA- 30
ESE- 70
Total- 100
Question Pattern:
There will be three types of Questions divided into three groups:
Group-A—MultipleType, Objective Questions: 10 x 2=20
Group-B —Four out of six short questions to be answered: 4 x5=20
Group-C — Three out of five long questions to be answered:3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar with life and works of Allama Iqbal

Course Outcomes:
Aftercompletion ofthecoursethestudents willbeable to:
CO 1: Understand poetry contributions of Allama Iqbal
CO 2: Art of Iqbal's poetry writing
CO 3: Major themes of Iqbal's poetry
CO 4: Philosophical concepts of Iqbal

MJC-12 Study of Allama Iqbal علامہ اقبال کا مطالعہ

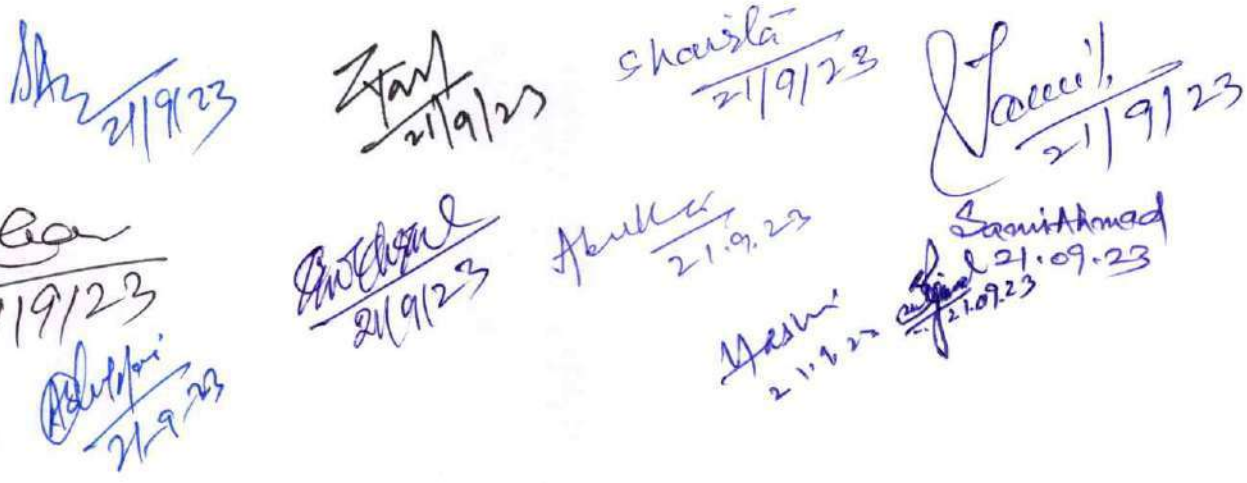
Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Iqbal: Shakhsiyat aur Halat-e-Zindagi اقبال:شخصیت اور حالات زندگی	1	10	8-2-0
2	Iqbal ki Nazmnigari (Bang-e-Dara ki nazmen: Gul-e-Rangeen, Ahd-e-Tifli, Abr-e-Kohsar, Bachchay ki Dua, Maan ka Khwab, Aql-o-dil) اقبال کی نظم نگاری " بانگ درا کی نظمیں گل رنگین، عہد طفلی، ابر کہسار، بچے کی دعا، ماں کا خواب اور عقل و دل	1	10	8-2-0
3	Iqbal ki Ghazalgoi اقبال کی غزل گوئی	1	10	8-2-0
4	Iqbal ki Watani Shaeri اقبال کی وطنی شاعری	1	10	8-2-0
5	Iqbal ke tasawwurat-e-ishq, Khudi, Mard—e-Momin اقبال کے تصورات عشق، خودی اور مرد مومن	1	10	8-2-0
TOTAL		**5**	**50**	

Suggested Readings:
7. Iqbal: Ek Motalea — ByKalimuddin Ahmad
8. Fikr-e-Iqbal : — By Khalifa Abdul Hakim
9. Iqbal Shair aur Danishwar: — By Mumtaz Ahmad Khan
10. Tasawwurat-e-Iqbal: — By Maulana Salahuddin Ahmad

معاون کتابیں

1 اقبال ایک مطالعہ
2 فکر اقبال
3 اقبال شاعر اور دانشور
4 تصورات اقبال

کلیم الدین احمد
خلیفہ عبدالحکیم
ممتاز احمد خاں
مولانا صلاح الدین احمد



SEMESTER-VII

Syllabusof Urdu for Four Year Undergraduate Course in CBCS:

Major Core Course-13

Study of Prem Chand پریم چند کا مطالعہ

Total Marks:-100

Division of Marks:

CIA - 30
ESE - 70
Tota - 100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A – Multiple Type Objective Questions: 10x2=20
Group-B – Four out of five short questions to be answered: 4x5=20
Group-C – Three out of four long questions to be answered: 3x10=30

Objective:

This paper has been designed with an objective to make the students familiar with the personality, contribution and the age of Prem Chand.

Course Outcome:

After the completion of the course, the student will be able:

CO1: To know the biography and contributions of Prem Chand.
CO2: To learn the art of story writing of Prem Chand.
CO3: To learn the novel writing of Prem Chand.
CO4: To know the contemporaries of Prem Chand.

STUDY OF PREM CHAND پریم چند کا مطالعہ

(THEORY: 05 CREDITS)

Unit	Topics to be Covered	Credits	No. Of Lectures	L-T-P
1	Prem Chand: Shakhsiyat Halat-e-Zindagi aur Moaasreen پریم چند: شخصیت، حالات زندگی اور معاصرین	01	10	8-2-0
2	Prem Chand Ki Afsana Nigari پریم چند کی افسانہ نگاری	1	10	8-2-0
3	Prem Chand Ki Novel Nigari پریم چند کی ناول نگاری	1	10	8-2-0
4	Text of Waredat واردات کا متن (i) Badnaseeb Maa بدنصیب ماں (ii) Raushni روشنی (iii) Masoom Bachcha معصوم بچہ (iv) Qatil ki Maa قاتل کی ماں (v) ShikwaShikayat شکوہ شکایت	1	10	8-2-0
5	Text of Novel "Nirmala" ناول نرملا کا متن	01	10	8-2-0
	Total	**05**	**50**	

Suggested Reading :

1.Prem Chand Ki Novel Nigari: Ek TanquidiMotalea By Qamar Rais
2.Prem Chand Kahani Ka Rahnuma By Jafar Raza
3.Qalam Ka Sepahi By Amrit Rai
4.Naya Afsana- ByWaqar Azeem
5.Afsana Nigar Prem Chand By Azimushshan Siddiqui
6.Prem Chand ki Takhliqat kaMaroozi Motalea By Saghir Afrahim
7. Jahan e Fiction By Shahab Zafar Azmi

معاون کتابیں

پریم چند کی ناول نگاری ایک تنقیدی مطالعہ
پریم چند کہانی کا رہنما
قلم کا سپاہی
نیا افسانہ
افسانہ نگار پریم چند
پریم چند کی تخلیقات کا معروضی مطالعہ
جہان فکشن

قمر رئیس
جعفر رضا
امرت رائے
وقار عظیم
عظیم الشان صدیقی
صغیر افراہیم
شہاب ظفر اعظمی

SEMESTER-VII

Syllabus of Urdu for Four Year Undergraduate Course in CBCS:

Major Core Course-15 (STUDY OF BIHAR SCHOOL)دبستان بہار کا مطالعہ

Total Marks:-100, Credit-06

Division of Marks:

CIA - 30
ESE - 70
Tota - 100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A – Multiple Type Objective Questions: 10x2=20
Group-B – Four out of six short questions to be answered: 4x5=20
Group-C – Three out of five long questions to be answered: 3x10=30

Objectives-

This paper has been prepared with an aim to make the students familiar with the History of Bihar School with respect to poetry, fiction &Tanqueed

Course Outcomes

After the completion of the course, the student will be able to learn:

CO1: The history and contributions of Bihar School towards the development of Urdu.
CO2: The history of Urdu poetry in Bihar.
CO3: The history of Urdu fiction in Bihar.
CO4: The history of Urdu Tanqueed and Tanz-o-Mazah in Bihar.

M.JC-15 STUDY OF BIHAR SCHOOL
THEORY: 06 CREDITS

Unit	Topics to be Covered	Credits	No. Of Lectures	L-T-P
1	Bihar School keTashkeeli –o- TameeriAnasir دبستان بہار کے تشکیلی و تعمیری عناصر	01	10	8-2-0
2	Bihar Mein Urdu Shaeri (Shad Azimabadi, Jameel Mazhari, Kaleem Ajiz) بہار میں اردو شاعری(شاد عظیم آبادی، جمیل مظہری، کلیم عاجز)	01	10	8-2-0
3	Bihar Mein Urdu Afsana with special reference to 'Alao'(Suhail Azimabadi), Quanoon Ki Basti (Sheen Muzaffarpuri), 'Dayn' (Shakila Akhtar) بہار میں اردو افسانہ(الاؤ-سہیل عظیم آباد آبادی، قانون کی بستی- ش مظفرپوری،ڈائن-شکیلہ اختر)	01	10	8-2-0
4	Bihar Mein Urdu Novel with special reference to 'Islahun Nisa'(Rasheedun Nisa), 'Do Gaz Zameen (Abdus Samad), 'Furaat' (Husain-ul-Haque) بہار میں اردو ناول(اصلاح النسا-رشید النسا، دوگز زمین-عبدالصمد،فرات-حسین الحق)	01	10	8-2-0
5	Bihar Mein Urdu Tanqueed with special reference to 'Urdu Shayari Per Ek Nazar-Vol-I' Kalimuddin Ahmad, 'Urdu Fiction AurTeesriAankh' Wahab Ashrafi, 'Iqbal ka Fun by Abdul Mughni بہار میں اردو تنقید(اردو شاعری پر ایک نظر-کلیم الدین احمد،اردو فکشن اور تیسری آنکھ-وہاب اشرفی،اقبال کا فن-عبدالمغنی)	01	10	8-2-0
6	Bihar Mein Urdu Tanz o Mazah with special reference to 'Kiraye ki Tumtum' by Anjum Manpuri, 'Shakar' by Ahmad Jamal Pasha, 'Hero' by Syed Mohammad Hasnain	01	10	8-2-0

	بہار میں اردو طنزومزاح(کرانے کی ٹم ٹم-انجم مانپوری،شکر-احمد جمال پاشا،بیرو-سید محمد حسنین)			
			Total	60

Suggested Reading :

1. Bihar mein Urdu Zaban-o-Adab ka Irtequa By Akhtar Orainvi
2. Bihar meinUrdr Nasr ka Irtequa By Muzaffar Iqbal
3. Bihar Ke Nazam Nigar Shoara By Qamar Azam Hashmi
4. Furat mutala o Muhasba By Shahab Zafar Aazmi
5. Anjum Manpuri Ahwal o Asar By Izhar Khizar
6. Bihar mein Urdu Novel Nigari 1980 Ke Bad- By Raees Anwar
7. Bihar Mein Urdu Tanqeed By Prof. Ejaz Ali Arshad
8. Bihar ki Bahar By Prof, Ejaz Ali Arshad
9. SinfInshaiya Aur Chand Inshaiye By Syed Mohammad Hasnain
10. Bihar Mein Urdu Fiction ByAhmad Saghir
11. Ahmad Jamal Pasha By Zafar Kamali
12. Naye aur PuraneAfsaneMatn Aur Tajziya By Zar Nigar Yasmeen
13. Kalim Aajiz (Mongraph) By Md Hamid Ali Khan

معاون کتابیں

بہار میں اردو زبان و ادب کا ارتقا	اختر اورینوی
بہار میں اردو نثر کا ارتقا	مظفر اقبال
بہار کے نظم نگار شعرا	قمر اعظم ہاشمی
فرات مطالعہ ومحاسبہ	شہاب ظفر اعظمی
انجم مانپوری احوال و آثار	اظہار خضر
بہار میں اردو ناول نگاری 1980 کے بعد	رئیس انور
بہار میں اردو تنقید	اعجاز علی ارشد
بہار کی بہار	اعجاز علی ارشد
صنف انشائیہ اور چند انشائیے	سید محمد حسنین
بہار میں اردو فکشن	احمد صغیر
احمد جمال پاشا	ظفر کمالی
نئے اور پرانے افسانے متن اور تجزیہ	زرنگار یاسمین
کلیم عاجز	حامد علی خاں

SEMESTER-VIII

Syllabusof Urdu for Four Year Undergraduate Course in CBCS:

Major Core Course MJC-16

(STUDY OF URDU SAWANEH AND KHUD NAWISHT)اردو سوانح اور خودنوشت کا مطالعہ

Total Marks:-100

Division of Marks:

CIA - 30
ESE - 70
Tota - 100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A – Multiple Type Objective Questions : 10x2=20
Group-B – Four out of six short questions to be answered : 4x5=20
Group-C – Three out of five long questions to be answered : 3x10=30

Course Outcomes

After the completion of the course, the student will be able:

CO1: To learn the art and history of Urdu Sawaneh.
CO2: To learn the art and history of Urdu Khud Nawisht.
CO3: To learn the art of Sawaneh Nigari by Hali and Shibli.
CO4: To learn the art of Sawaneh Nigari by Kalimuddin Ahmad and Akhtarul Iman.

MJC-16 STUDY OF URDU SAWANEH AND KHUD NAWISHT
THEORY: 04 CREDITS

Unit	Topics to be Covered	Credits	No. Of Lectures	L-T-P
1	Urdu Me Sawaneh Nigari: Fun aur Rewayat with special reference to Altaf Hussan Hali اردو میں سوانح نگاری: فن اور روایت، الطاف حسین حالی کے حوالے سے	01	15	13-2-0
2	Urdu Mein KhudNawisht Ka-Fun aur Rewayat with Special reference to Apni Talashmein (Vol 1)-by Kalimuddin Ahmad اردو میں خودنوشت کا فن اور روایت،اپنی تلاش میں کے حوالے سے	01	15	13-2-0
3	Shibli Nomani Ki Sawaneh Nigari with Special reference to Sawaneh Maulana Rum شبلی نعمانی کی سوانح نگاری، سوانح مولانا روم کے حوالے سے	01	15	13-2-0
4	Study of "Is Aabad Kharabe Mein" Khud Nawisht by Akhtarul Iman اخترالایمان کی خودنوشت اس اباد خرابے میں کا مطالعہ	01	15	13-2-0
	Total		60	

Suggested Reading :

1. Urdu Me Sawaneh Nigari — By Syed Shah Ali
2. Fan-e-Sawaneh Nigari — ByAmirullah Khan Shahin
3. Urdu Khud Nawisht Fan oTajziya — ByWahajuddin
4. Apni Talash Me (Vol. 1) — By Kalimuddin Ahmad
5. Sawaneh Maulana Rum – — By Shibli Nomani
6. Hayat-e-Jawed - — By Altaf Husain Hali
7. Is Aabad Kharabe Mein- — By Akhtarul Iman
8. Akhtarul Iman Shakhs Aur Shair: — By Khwaja Nasim Akhtar

معاون کتابیں

اردو یں سوانح نگاری
فن سوانح نگاری
اردو خودنوشت: فن اور تجزیہ
اپنی تلاش میں جلد اول
سوانح مولانا روم
حیات جاوید
اس آباد خرابے میں
اختر الایمان شخص اور شاعر

سید شاہ علی
امیر اللہ خاں شاہین
وہاج الدین
کلیم الدین احمد
شبلی نعمانی
الطاف حسین حالی
اختر الایمان
خواجہ نسیم اختر

SEMESTER-VIII

Research Project/ Disertation (Credit-12)

تحقیقی مقالہ کی پیش کش

Division of Marks:

Disertation / Project- 06 Credits

Viva-Voce/ Presentation -06 Credits

course outcomes

After the completion of the course, the student will be able:

CO1: To learn the Methodology of Research.

CO2: To learn the art of Writing Research paper.

CO3: To learn the styles of expression.

CO4: To learn the presentation of Research paper.

A dissertation of about 50 typed pages averagely divided in to four or five chapters as per requirement on any literary topic from Urdu Language and Literature, assigned by the Departmnet.

SEMESTER III
MINOR COURSE 3 (MIC-3)
Study of Urdu Nazm (3 Credits) اردو نظم کا مطالعہ
Full Marks: 100

Total Marks:100

Division of Marks:

CIA -	30
ESE -	70
Total-	100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A — Multiple Type, Objective Questions: 10 x 2=20
Group-B — Four out of six short questions to be answered: 4x5=20
Group-C — Three out of five long questions to be answered: 3 x 10=30
Objective: This paper has been designed with an objective to make the students familiar with history of Urdu Nazm writing, and its salient features

Course Outcomes:

After completion of the course the students will be able to:
CO 1: Understand the development of Urdu Nazm and its features
CO 2: Art of Urdu Nazm writing
CO 3: Understand major trends of Urdu Nazm
CO 4: Be acquainted with some important Nazm writers

MIC 3 Study of Urdu Nazm (3 Credits) اردو نظم کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Urdu Nazm: Tareef-o-Tareekh اردو نظم: تعریف و تاریخ	1	10	8-2-0
2	Nazir Akbar Abadi ki nazm"Aadminama", aur Altaf Husain Hali ki nazm "Barkha rut" ka kakhusoosimutalea نظیر اکبرآبادی کی نظم " آدمی نامہ اور الطاف حسین حالی کی نظم برکھارت کا خصوصی مطالعہ	1	10	8-2-0
3	Josh Malihabadi kinazm"Kisaan", aur Jameel Mazhari ki nazm "Payam" ka khusoosimutalea جوش ملیح آبادی کی نظم کسان اور جمیل مظہری کی نظم پیام کا خصوصی مطالعہ	1	10	8-2-0

Suggested Readings:

1. Urdu Shaeri ka FunniIrteqa: By Farman Fatehpuri
2. Jadeed Shaeri: By Ibadat Barelvi
3. Josh Malihabadi aur unkiNazmnigari By Talat Hussain Naqvi
4. Urdu Nazm keSilsile By Aleem Saba Nawedi

معاون کتابیں
1 اردو شاعری کا فنی ارتقا فرمان فتحپوری
2 جدید شاعری عبادت بریلوی
3 جوش ملیح آبادی اور ان کی نظم نگاری طلعت حسین نقوی
4 اردو نظم کے سلسلے علیم صبا نویدی

معاون کتابیں

1 اردو غزل اور مطالعۂ غزل
2 اردو غزل
3 دلی کا دبستان شاعری
4 لکھنؤ کا دبستان شاعری

عبادت بریلوی
یوسف حسین خان
نورالحسن ہاشمی
ابواللیث صدیقی

SEMESTER IV
MINOR COURSE 4 (MIC-4)
Study of Urdu Ghazal (3 Credits) اردو غزل کا مطالعہ
Full Marks: 100

Total Marks:100
Division of Marks:
CIA -30
ESE -70
Total-100

Question Pattern:
There will be three types of Questions divided into three groups:
Group-A — Multiple Type, Objective Questions: 10 x 2=20
Group-B — Four out of six short questions to be answered: 4x5=20
Group-C — Three out of five long questions to be answered: 3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar with the art and tradition of Urdu Ghazal, and study of some important trend setters of Urdu Ghazal

Course Outcomes:
After completion of the course the students will be able to:
CO 1: Understand origin and development of Urdu Ghazal
CO 2: Art of Urdu Ghazal writing
CO 3: Major themes of Urdu Ghazal
CO 4: Some important Ghazal writers

MIC-4 Study of Urdu Ghazal (3 Credits) اردو غزل کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Urdu Ghazal: Tareef-o-Tareekh, aur Dabistan-e-Ghazal اردو غزل: تعریف و تاریخ اور دبستان غزل	1	10	8-2-0
2	Wali ki ghazal "muflisi sab baharkhotihai" aur Mir ki ghazal "Nazuki us kay lab ki kyakahiye" ka khusoosimutalea ولی کی غزل" مفلسی سب بہار کھوتی ہے" اور نازکی اس کے لب کی کیا کہیے کا خصوصی مطالعہ	1	10	8-2-0
3	Atish ki ghazal "sun to sahijahan men hai tera fasanakya" aur Shad Azimabadi ki ghazal "ab bhi ek umr pe jeene ka naandazaaya" ka khusoosimutalea آتش کی غزل" سن تو سہی جہاں میں ہے تیرا فسانہ کیا" اور شاد عظیم آبادی کی غزل اب بھی ایک عم پر جینے کا نہ انداز آیا کا خصوصی مطالعہ	1	10	8-2-0

Suggested Readings:

1. Urdu Ghazal aur Mutala-e-Ghazal — By Ibadat Barelvi
2. Urdu Ghazal — By Yusuf Hussain Khan
3. Dilli ka Dabistan-e-Shaeri — By Nurul Hasan Hashmi
4. Lucknow ka Dabistan-e-Shaeri — ByAbullais Siddiqui

SEMESTER-V

Syllabus of Urdu for Four Year Undergraduate Course in CBCS:

MIC05 (Study of Urdu Masnawi, Marsiya and Qaseeda): (Credit: 03)

اردو مثنوی، مرثیہ اور قصیدہ کا مطالعہ

Total Marks:-100

Division of Marks:

CIA - 30
ESE - 70
Total - 100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A – Multiple Type Objective Questions: 10X2=20
Group-B – Four out of six short questions to be answered: 4X5=20
Group-C – Three out of five long questions to be answered: 3X10=30

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the history and art of Masnavi
CO2: Understand the history and art of Marsiya.
CO3: Understand the history and art of Qaseeda.

MIC 5 :Study of Urdu Masnavi, Marsiya and Qaseeda
(Theory: 3 credits)

Unit	Topics to be covered	Credit	No. of Lectures	L-T-P
1	Sinf-e-Masnavi aur uskaIrteqa Shauquenimvi ki Masnavi Nigariwith special reference to "Soz-o-Gudaz" صنف مثنوی اور اس کا ارتقا(شوق نیموی کی مثنوی سوزوگداز کے متن کا مطالعہ)	01	10	8-2-0
2	Sinf-e-Marsiya: Fun aur Irteqa. Meer Anees ki Marsiya Nigari with Spl. reference to "Farzand-e-Payamber Ka Madine se Safar hai" صنف مرثیہ: فن اور ارتقا میر انیس کی مرثیہ نگاری اور مرثیہ" فرزند پیمبر کا مدینے سے سفر ہے"	01	10	8-2-0
3	Sinf-e-Qaseeda: Fun aur Irteqa Sauda Ki Qaseeda Nigari with Spl. reference to Shahr-e-Ashoob صنف قصیدہ: فن اور ارتقا سودا کی قصیدہ نگاری اور قصیدہ شہر آشوب	01	10	8-2-0
	TOTAL	03	30	

Suggested Reading:

1.	Masnavi ka Fun aur Urdu Masnavyan	-	Najmul Hoda
2.	Urdu Masnavi ka Irteqa	-	Abdul Qadir Sarwari
3.	Urdu Marsiya Kalrteq-Ibteda se Anees tak	-	Dr. Masihuzzaman
4.	Urdu Marsiya Nigari	-	Dr. Umme Hani Ashraf
5.	Urdu Mein Qaseeda Nigari	-	Abu Mohammad Sahar
6.	Qaseeda Ka Fun Aur Urdu Qaseeda Nigari	-	Dr. M. Kamaluddin
7.	Masnavi Soz-o-Gudaz	-	ShauqueNeemvi

معاون کتابیں
مثنوی کا فن اور اردو مثنویاں — نجم الہدیٰ
اردو مثنوی کا ارتقا — عبدالقادر سروری

اردو مرثیہ کا ارتقا، ابتدا سے انیس تک	ڈاکٹر مسیح الزماں
اردو مرثیہ نگاری	ام بانی اشرف
اردو میں قصیدہ نگاری	ابو محمد سحر
قصیدہ کا فن اور اردو قصیدہ نگاری	ایم کمال الدین
مثنوی سوز وگداز	شوق نیموی

SEMESTER-V

Syllabus of Urdu for Four Year Undergraduate Course in CBCS:

MIC 06 (Study of Urdu Criticism) (Credit-3)

اردو تنقید کا مطالعہ

Total Marks:-100

Division of Marks:

CIA	-	30
ESE	-	70
Total	-	100

Question Pattern:

There will be three types of Questions divided into three groups:

Group-A – Multiple Type Objective Questions: 10X2=20

Group-B – Four out of six short questions to be answered: 4X5=20

Group-C – Three out of five long questions to be answered : 3X10=30

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the history and techniques of Urdu criticism

CO2: Learnthe criticism of Hali

CO3: Learn about the leading critics of Bihar.

MIC 6 :Study of Urdu Criticism (Theory: 3 credits)				
Unit	**Topics to be covered**	**Credit**	**No. of Lectures**	**L-T-P**
1	Urdu Tanqueed, Fun aur Irteqa اردو تنقید فن اور ارتقا	01	10	8-2-0
2	Haali Aur Moqadama Sher-O-Shayari حالی اور مقدمہ شعر و شاعری	01	10	8-2-0
3	Bihar Ke numaindaTanqueed Nigar بہار کے نمائندہ تنقید نگار	01	10	8-2-0
	TOTAL	03	30	

Suggested Reading:

1.Urdu Tanqueed Ka Irteqa	- IbadatBarelvi	عبادت بریلوی
2. Fun-e-Tanqueed aur Urdu TanqueedNigari	- Noorul Hassan Naqvi	نورالحسن نقوی
3.Tanqueed Keya Hai	- Ale Ahmad Saroor	آل احمد سرور
4.Bihar Mein Urdu Tanqueed	- Dr. Ejaz Ali Arshad	اعجاز علی ارشد
5.Bihar Mein Urdu Tahqueeq-o-Tanqueed	- Edit by Dr. Mushtaque Ahmad	مرتب ڈاکٹر مشتاق احمد
6.Fun-e- Tanqueed Aur TanqueediMazameen	- Prof. Najmul Hoda	نجم الہدیٰ

معاون کتابیں

اردو تنقید کا ارتقا

فن تنقید اور اردو تنقید نگاری

تنقید کیا ہے

بہار میں اردو تنقید

بہار میں اردو تحقیق و تنقید

فن تنقید اور تنقیدی مضامین

Semester - VI

MINOR COURSE 7 (MIC-7)

Study of Urdu Tanz-o-Mezah (3 Credits) اردو طنزومزاح کا مطالعہ

Full Marks: 100

Total Marks:100

Division of Marks:

CIA-	30
ESE-	70
Total-	100

Question Pattern:

There will be three types of Questions divided into three groups:

Group-A—MultipleType, Objective Questions:10 x 2=20

Group-B —Four out of six short questions to be answered: 4 x5=20

Group-C — Three out of five long questions to be answered: 3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar with the art and tradition of light essays and humorous writings in Urdu with a short historical development of Tanz-o-mezah as an art of writing.

Course Outcomes:

After completion of the course the students will be able to:

CO 1: Understand origin and development of *tanz-o-mezah in Urdu literature*

CO 2: Art of Urdu *tanz-o-mezah*writing and its social importance

CO 3: Different trends and styles of *tanz-o-mezah*writing

CO 3: Be acquainted with some important *tanz-o-mezah*writers and their contributions

MIC-07 Study of Urdu Tanz-o-Mezah اردو طنزومزاح کا مطالعہ

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Tanz-o-Mezahki Tareef-o-Tareekh اردو طنزومزاح کی تعریف وتاریخ	1	10	8-2-0
2	Akbar Allahabadi ki Tanziya-o-Mezahiya Shaeri اکبرالہ آبادی کی طنزیہ ومزاحیہ شاعری	1	08	6-2-0
3	Arhar ka Khet by Rasheed Ahmad Siddiqui, Apne Watan Main, by Kanhaiya Lal Kapoor, Ghusulyat by Krsihna Chandra, Kiraye ki Tamtam by Anjum Manpuri, Dawat Aur Adawat by Ejaz Ali Arshad ارہر کا کھیت(رشید احمد صدیقی)اپنے وطن میں(کنہیا لال کپور)غسلیات(کرشن چندر)کرائے کی تم ٹم(انجم مانپوری)دعوت اور عداوت(اعجاز علی ارشد)کا مطالعہ	1	12	10-2-0
Total		**3**	**30**	

Suggested Readings:

1. Azadi ke Baad Urdu Tanz-o-Mezah — By Abul Kalam Qasmi
2. Urdu Adab Main Tanz-o-Mezah... — By Qamar Rais

3. Urdu Adab Main Tanz-o-Mezah By Wazir Agha
4. Biswin Sadi main Urdu Tanz-o-Mezah By Nami Ansari

معاون کتابیں

1	آزادی کے بعد اردو طنزومزاح	ابوالکلام قاسمی
2	اردو ادب میں طنزومزاح کی روایت اور ہم عصر رجحانات	قمر رئیس
3	اردو ادب میں طنزومزاح	وزیرآغا
4	بیسویں صدی میں اردو طنزومزاح	نامی انصاری

SEMESTER-VI
MINOR COURSE 8 (MIC-8)
Study of Mirza Ghalib (3 Credits) مرزا غالب کا مطالعہ
Full Marks: 100

Total Marks:100

Division of Marks:

CIA- 30
ESE- 70
Total- 100

Question Pattern:

There will be three types of Questions divided into three groups:
Group-A—MultipleType, Objective Questions:10 x 2=20
Group-B —Four out of six short questions to be answered: 4 x5=20
Group-C — Three out of five long questions to be answered:3 x 10=30

Objective: This paper has been designed with an objective to make the students familiar with the life and literary contributions of Mirza Ghalib with special reference to his ghazals and letters

Course Outcomes:

After completion of the course the students will be able to:
CO 1: Understand life and works of Mirza Ghalib
CO 2: Art of Mirza Ghalib's Ghazal
CO 3: Ghalib's contribution in promoting Urdu prose

Unit	Topics to be covered	Credits	No. of Lectures	L-T-P
1	Ghalib: Shakhsiyat aur Halat-e-Zindagi غالب: شخصیت اور حالات زندگی	1	10	8-2-0
2	Ghalib ki Ghazalgoi with reference to " Dard minnat kash-e dawa..., Yeh na thi hamari qismat..., Koi Umeed bar nahin aati..." غالب کی غزل گوئی (درد منت کش دوا نہ ہوا۔، یہ نہ تھی ہماری قسمت۔، کوئی امید بر نہیں۔۔ کی روشنی میں)	1	10	8-2-0
3	Ghalib ki Nasr Nigari/ khutoot Nigari (Meer Mehdi ke Naam, Munshi Nabi Bakhsh Haqeer ke Naam) غالب کی نثر نگاری/ خطوط نگاری (میر مہدی کے نام، منشی نبی بخش حقیر کے نام)	1	10	8-2-0
	Total	**3**	**30**	

Suggested Readings:

1. Yadgar-e-Ghalib: By Altaf Hussain Hali
2. Ghalib: Shakhs aur Shaer By Rashid Ahmad Siddiqui
3. Ghalib: Shair aur Maktoobnigar By Nurul Hasan Naqwi
4. Ghalib ke Khutoot By Khalique Anjum

معاون کتابیں

1 یادگار غالب
2 غالب: شخص اور شاعر
3 غالب: شاعر اور مکتوب نگار
4 غالب کے خطوط

الطاف حسین حالی
رشید احمد صدیقی
نورالحسن نقوی
خلیق انجم

SEMESTER-VII

Syllabus of Urdu for Four Year Undergraduate Course in CBCS:

Minor Course-9 (Study of Zuban-o-Adab Ki Taareekh)

اردو زبان وادب کی تاریخ کا مطالعہ

Total Marks:-100

Division of Marks:

CIA	-	30
ESE	-	70
Total	-	100

Question Pattern:

There will be three types of Questions divided into three groups:

Group-A – Multiple Type Objective Questions : 10X2=20

Group-B –Four out of six short questions to be answered : 4X5=20

Group-C – Three out of five long questions to be answered : 3X10=30

Course Outcomes

After the completion of the course, the student will have to:

CO1: The history of Urdu literature.

CO2: The literature of Delhi School.

CO3: The literature of Lucknow School.

CO4: The contribution of Fort William College.

MIC 9 : Study of Urdu Zaban-o-Adab ki Tareekh (Theory: 4 credits)				
Unit	**Topics to be covered**	**Credit**	**No. of Lectures**	**L-T-P**
1	Urdu Ki Ibtedai Nash-O-Numa Mein Sufiya-E-Karma Ka Kaam اردو کی ابتدائی نشو ونما میں صوفیائے کرام کا کام	01	10	8-2-0
2	Urdu Ke Aagaaz Ke MotalliqMukhtalifNazariyat اردو کے آغاز سے متعلق مختلف نظریات	01	10	8-2-0
3	Dabistan-e-Delhi aur Dabistan-e-Lucknow Ki Khususyat دبستان دہلی اور دبستان لکھنؤ کی خصوصیات	01	10	8-2-0
4	Fort-William College Ki Adbi Khidmaat فورٹ ولیم کالج کی ادبی خدمات	01	10	8-2-0
	TOTAL	04	40	

Suggested Reading :

1. Urdu Ki ibtedaiNashwo Noma me Sufiyae Karam ka kaam by Moulvi Abdul Haque
2. Maqaddama-e-Tareekh-e-Zaban-e- Urdu By Masood Husain Khan
3. Do Adabi School by Ali Jawwad Zaidi.
4. Dilli Ka Dabistan ShayeriBy Noorul Hasan Hashmi
5. Lucknow Ka dabistanShayeri By Abullais Siddiqui
6. Hindustani Lisanyat by Mohaiyuddin Quadrizor

معاون کتابیں

اردو کی ابتدائی نشو ونما میں صوفیائے کرام کا کام

مقدمہ تاریخ زبان اردو

دو ادبی اسکول

دلی کا دبستان شاعری

لکھنؤ کا دبستان شاعری

ہندوستانی لسانیات

مولوی عبدالحق

مسعود حسین خاں

علی جواد زیدی

نورالحسن ہاشمی

ابواللیث صدیقی

محی الدین قادری زور

SEMESTER-VIII

Syllabusof Urdu for Four Year Undergraduate Course in CBCS:

Minor Core Course 10

(Study of Arooz-o- Balaghat& Translation)عروض وبلاغت اور ترجمہ نگاری کا مطالعہ

Total Marks:-100

Division of Marks:

CIA	-	30
ESE	-	70
Tota	-	100

Question Pattern:

There will be three types of Questions divided into three groups:

Group-A – Multiple Type Objective Questions: 10x2=20

Group-B – Four out of six short questions to be answered:4x5=20

Group-C – Three out of five long questions to be answered: 3x10=30

After the completion of the course, the student will be able:

CO1: To understand the art and techniques of Arooz in Urdu poetry.

CO2: To learn the art of Translation from Urdu to English, Hindi and Vice Versa.

CO3: To learn the definitions of Istelahat-e-Balaghat.

CO4: To learn the defintions of Istelahat-e-Arooz.

MIC-10 (Study of Arooz-o- Balaghat&Translation)
THEORY: 04 CREDITS

Unit	Topics to be Covered	Credits	No. Of Lectures	L-T-P
1	Definition of Tashbeeh, Isteara, Mobalegha, Gholoo, Husn-e-Taleel, Tajahul-e-Arefana, Talmeeh, Kinaya, Majazetc تشبیہہ، استعارہ، مبالغہ، غلو، حسن تعلیل، تجاہل عارفانہ، تلمیح، کنایہ، مجاز وغیرہ کی تعریف	01	10	8-2-0
2	Definition of Wazn, Sabab, Watad. Fasela, Rukn, Bahr etc وزن، سبب، وتد،فاصلہ، رکن، بحر وغیرہ کی تعریف	01	10	8-2-0
3	Art of Translation, Istelahat and Techniques of Translation in Urdu اردو میں ترجمہ نگاری اور اصطلاحات کی تکنیک	01	10	8-2-0
4	Art and Techniques of Translation from Urdu to Hindi, English & Persianand vice versa اردو سے اور اردو میں ہندی، انگریزی اور فارسی ترجمہ نگاری	01	10	8-2-0
		Total	40	

Books of References:

1. Fan-e-Tarjama Nigari - Prof. Qamar Rais
2. Tafheem-e-Balaghat - Wahab Ashrafi
3. JadeedIlmulArooz - Abdul Majeed
4. Aamad Nama - Persian
5. Farsi Ki Pahli Kitab – Persian
6. Tarz-e- Nigarish-Sachida Nand Sinha

معاون کتابیں
فن ترجمہ نگاری
تفہیم بلاغت
جدید علم العروض
آمدنامہ
فارسی کی پہلی کتاب
طرز نگارش

قمر رئیس
وہاب اشرفی
عبدالمجید

سچدانند سنہا

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:-**Regarding submission of proposed course uniform syllabus of Mathematics for 3rd to 8th Semester of 4 - Year undergraduate Course under CBCS System as per UGC Regulations.**

Ref.:- Letter No.-BSU (UGC) -02/2023- 1457/ GS(I) dated 14.09.2023

Sir,

In compliance with your letter no. BSU(UGC)-02/2023-1457/GS(I), dated-14.09.2023, we are submitting the proposed course syllabus of **Mathematics** for 3rd to 8th semester of the 4 - year under graduate course (CBCS) as per UGC regulations.

Yours sincerely,

1 **Prof. Shambhu Kr Mishra**
Professor & Head
Patliputra University, Patna
Email.-shambhumishra5@gmail.com
Mobile -9430284208

2 **Dr. S.B. Rai**
Associate Professor,
Patna University, Patna
Email.- drsbrai5@gmail.com
Mobile -9801819536

3 **Dr. Gurudayal Singh**
HOD, P.G. Dept. of Math,
V K S University, Ara
Email.-gdsingh01967@gmail.com
Mobile -9931943209

4 **Dr. Rafiqul Hasan**
Professor, P.G. Dept. of Math,
(Additional)
T M B University, Bhagalpur
Email.-variantresearchcenter@gmail.com
Mobile -8986975175

5 **Dr. Bijendra Kumar***
Ex-HOD, P.G. Dept. of Math,
(Additional)
T M B University, Bhagalpur
Email.-drbijendra.krbjp@gmail.com
Mobile -8709882839

6 **Dr. Ashok Kumar**
Professor & Head, P.G. Dept. of Math,
(Additional)
J P University, Chapra
Email.-ashokdavsiwan@gmail.com
Mobile -8709792787

7 **Dr. Abdul Halim**
Assistant Professor, H.S. College,
H.Kharagpur
(Additional)
M G R University, Munger
Email.-abdul.math91@gmail.com
Mobile -8637572578

8 **Dr. Anupam Kumar Singh**
Assistant Professor & Head, Dept. of Mathematics,
C.M. College, Darbhanga
(Additional)
L N M University, Darbhanga
Email.-anupam09.bhu@gmail.com
Mobile -9399873239

9 **Dr. Manoj Kumar Manoranjan**
Professor & Head
(Additional)
B N M University, Madhepura
Email.-manojmanoranjan.kumar@gmail.com
Mobile -9431889129

10 **Dr. Kumar Vishal**
Assistant Professor, P.G. Dept. of Math,
(Additional)
Magadh University, Bodh Gaya
Email.-kumarvishal.bhu@gmail.com
Mobile -8385095319

11 **Dr. Vipul Kumar Baranwal**
Assistant Professor & Head, Dept. of Mathematics,
D.C. College, Hajipur
(Additional)
B RA Bihar University, Muzaffarpur
Email.-vkbaranwal1@gmail.com
Mobile -8130545394

12 **Dr. Raj Kishore Singh***
Retd. Associate Professor,
K.C.T.C. College, Raxaul
(Additional)
B RA Bihar University, Muzaffarpur
Email.-rajkishore775@gmail.com
Mobile -9431637923

Syllabus for Major Courses (Mathematics) Semester-III to VIII

SEMESTER- III

MJC-03: Real Analysis

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand many properties of the real line and learn to define sequence in terms of functions.
CO2: Recognize bounded, convergent, divergent, Cauchy and monotonic sequences.
CO3: Apply tests for convergence and absolute convergence of an infinite series of real numbers.

MJC-03: Real Analysis (5 credits) Full Marks- 100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Dedekind theory of real numbers, Algebraic and order properties of R, Archimedean Property, Density Theorem, Completeness property of R, Bounded sets, Theorems on Suprema and Infima.	10
2	Neighbourhood of a point in R, Open and closed sets, Limit points and isolated points of a set, Bolzano-Weierstrass theorem for a set, Derived set, Clouser and Interior of a set.	12
3	Sequence and its convergence, Bounded sequence, Monotone sequences, Subsequences, Limit of a sequence, Limit Theorem, Bolzano-Weierstrass theorem for sequences, Limit superior and limit inferior for bounded sequence, Cauchy sequence, Cauchy's general principle of convergence.	14
4	Infinite series and their convergence, Cauchy Criterion, Tests for convergence: Comparison test, D'Alembert Ratio Test, Cauchy's root test, Rabbe's test, Logarithmic test,D'Morgan and Bertrand's test, Cauchy integral test, Cauchy condensation test, Gauss's test, Alternating series, Leibnitz test, Absolute and Conditional convergence.	14
	TOTAL	50

Book References:

1. Bartle, Robert G., &Sherbert, Donald R. (2015). Introduction to Real Analysis (4th ed.). Wiley India Edition. New Delhi.
2. Ross, Kenneth A. (2013). Elementary Analysis: The theory of calculus (2nd ed.). Undergraduate Texts in Mathematics, Springer. Indian Reprint.
3. Malik, S. C. & Arora, Savita. (2021). Mathematical Analysis (6th ed.). New Age International Publishers, New Delhi
4. Jha,K.K. Advanced Course in Real Analysis and Higher Analysis. New Bharat Publishing House.

SEMESTER- III
MJC-04: Ordinary Differential Equations

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the concept of ordinary differential equation.
CO2: Solve first order linear and non-linear differential equation and linear differential equations of higher order using various techniques.
CO3: Apply these techniques to solve and analyze various mathematical models.

MJC-04: Ordinary Differential Equations (4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Formulation of Differential equations and its order and degree, General, Particular and Singular solutions of differential equations, variables separable, Equations reducible to variables separable, Homogeneous differential equations, Equations reducible to homogeneous form, Exact differential equations and equations reducible to the exact form, Linear differential equations and equations reducible to linear form, Bernoulli equation.	10
2	Differential equations of first order but not of first degree, Singular solutions, Clairaut's form, Orthogonal Trajectories of family of curves, Wronskian and its properties, Linear differential equation of order greater than one with constant coefficients, Cauchy- Euler Equation, Legendre's Linear Equation.	10
3	Second order linear differential equations with variable coefficients: Use of a known solution to find another, normal form, method of undetermined coefficient, variation of parameters, Total differential equation in three variables, Simultaneous differential equations.	10
4	Definition of Laplace transform, Existence Theorem, Formulas and Properties of Laplace transform, Laplace transform of special functions viz: Dirac's delta, Unit step, Periodic, Bessel, Error functions, Inverse Laplace transform, Formulas and Properties of inverse Laplace transform, Convolution theorem, Solution of ordinary differential equation using Laplace transform.	10
	TOTAL	40

Book References:

1. Simmons, George F. (2016). Differential Equations with Applications and Historical Notes. Tata–McGraw Hill Publishing Company Limited, New Delhi.
2. Raisinghania, M.D. (2020). Ordinary and Partial Differential Equations (20th ed.). S. Chand Publication.
3. Bronson, R. &Coasta, Gabriel B. (2021). Schaum's Outline of Differential Equations (5th ed.). McGraw Hill.
4. Prasad, Lalji. (2019). Differential Equations. Paramount Publication.

SEMESTER – IV

MJC-05: Theory of Real Functions

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: The concept of limit of a function.
CO2: The geometrical properties of continuous functions on closed intervals.
CO3: The applications of mean value theorem and Taylor's theorem.

MJC-05: Theory of Real Functions (Theory: 5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Limit of functions, Sequential criterion for limits, Divergence criteria, Limit theorems, One-sided limits, Infinite limits and limits at infinity.	10
2	Continuous functions, Sequential criterion for continuity and discontinuity, Algebra of continuous functions, Properties of continuous functions on closed intervals, Uniform continuity, Uniform continuity theorem.	14
3	Differentiability of a function, Algebra of differentiable functions, Increasing and Decreasing functions, Sign of derivatives, Chain rule, Darboux's theorem, Intermediate value theorem for derivatives, Rolle's theorem, Lagrange's and Cauchy's Mean value theorem and their applications.	14
4	Taylor's theorem with Lagrange's and Cauchy's remainder forms, Maclaurin's theorem, Application of Taylor's theorem in error estimation, Extreme values, Theorems related to extrema.	12
	TOTAL	50

Book References:

1. Bartle, Robert G., & Sherbert, Donald R. (2015). Introduction to Real Analysis (4th ed.). Wiley India Edition. New Delhi.
2. Ross, Kenneth A. (2013). Elementary Analysis: The theory of calculus (2nd ed.). Undergraduate Texts in Mathematics, Springer. Indian Reprint.
3. Malik, S. C. & Arora, S. (2021). Mathematical Analysis (6th ed.), New Age International Publishers, New Delhi
4. Jha,K.K. Advanced Course in Real Analysis and Higher Analysis. New Bharat Publishing House.

SEMESTER- IV

MJC-06: Group Theory

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, etc.

CO2: Explain the significance of the notion of cosets, normal subgroups, and factor groups.

CO3: Understand Automorphism, Class Equation and Sylow's theorem.

MJC-06 : Group Theory (5 credits) Full Marks: 100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Definition and examples of groups, Elementary properties of groups, Subgroups and examples of subgroups, Generator of a group, Cyclic group, Properties of cyclic groups.	10
2	Permutations Group, Even and odd permutations, Alternating Group, Cosets and its properties, Lagrange's theorem, Fermat's Little theorem, Euler's theorem, Normal subgroups, Quotient groups, Center of a group, Normalizer of an element, Normalizer of a subgroup.	10
3	Group homomorphisms, Kernel of a group homomorphism, Fundamental theorem of group homomorphism, Isomorphisms, Properties of Isomorphisms, First, Second and Third isomorphism theorems for groups, Cayley's theorem.	10
4	Automorphism, Inner automorphism, Group of Automorphisms, Group Automorphisms of finite and infinite cyclic groups, Commutator subgroup.	08
5	Conjugacy classes, Class equation, p-groups, Cauchy's theorem for finite abelian groups, Sylow's theorems.	12
	TOTAL	50

Book References:

1. Gallian, Joseph. A. (2013). Contemporary Abstract Algebra (8th ed.). Cengage Learning India Private Limited, Delhi. Fourth impression, 2015.
2. Herstein I.N. (2003). Topics in Algebra (2nd ed.). John Wiley & Sons.
3. Khanna, Vijay K. & Bhambri, S. K. A Course in Abstract Algebra (5th ed.). Vikash Publishing House Private Limited, New Delhi.
4. Fraleigh, John B. (2002). A Course in Abstract Algebra (7th ed.). Pearson Education.

SEMESTER- IV

MJC-07: Partial Differential Equations

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Formulate, classify and transform partial differential equations into canonical form.
CO2: Solve linear and non-linear partial differential equations using various methods.
CO3: Solve some physical problems.

MJC-07: Partial Differential Equations (5 credits) Full Marks- 100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Partial differential equations – Basic concepts and definitions, Formation of PDEs, Classification of First order PDEs, Lagrange's and Charpit's method for solving PDEs.	14
2	Homogeneous and non-homogeneous Partial differential equation of second and higher order with constant coefficients, Partial differential equations reducible to equations with constant coefficients.	12
3	Partial differential equations of second order with variable coefficients, Monge's Methods, Classification of second order linear equations as hyperbolic, parabolic or elliptic, Reduction of second order linear equations to canonical forms.	10
4	Fourier series in (c, c + 2π), Dirichlet's condition (without proof), Euler's formulae, Fourier series for even and odd functions, Fourier series of arbitrary interval (0, 2L) and (-L, L), Fourier Half range sine and cosine series, Method of Separation of variables, Solution of the Wave, Heat and Laplace equations and their applications.	14
	TOTAL	50

Book References:

1. Sneddon, Ian N. (2006). Elements of Partial Differential Equations. Dover Publications. Indian Reprint.
2. Raisinghania, M. D. (2018).Advanced Differential Equations (19th ed.). S. Chand Publication.
3. Raisinghania, M.D. (2020). Ordinary and Partial Differential Equations (20th ed.). S. Chand Publication.
4. Amarnath T. An elementary course in Partial differential equations (2nd ed.). Narosa Publication.

SEMESTER -V

MJC-08: Ring Theory and Linear Algebra-I

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: The fundamental concept of Rings, Fields, subrings, integral domains, ring homomorphisms and their properties.

CO2: The concept of linear independence of vectors over a field, the idea of a finite dimensional vector space, basis of a vector space and the dimension of a vector space.

CO3: Basic concepts of linear transformations, the Rank-Nullity Theorem, matrix of a linear transformation, algebra of transformations and the change of basis.

MJC-08 : Ring Theory and Linear Algebra-I (5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Definition and examples of rings, Properties of rings, Definition and examples of Subrings, Zero divisors, Integral domains and its examples, Properties of integral domains, Division rings, fields, Characteristic of a ring, Ideals and its properties, Quotient rings.	14
2	Ring homomorphisms, Kernel of Ring homomorphisms, Properties of ring homomorphisms, Isomorphism theorems for Rings.	10
3	Vector spaces, Subspaces, Algebra of subspaces, Linear combination of vectors, Linear span, Linear independence, Basis and dimension, Dimension of subspaces, Quotient spaces.	14
4	Linear transformations, Null Spaces and Ranges, Matrix representation of a linear transformation, Rank-Nullity theorem, Algebra of linear transformation, Eigenvalues and Eigenvectors, Characteristic equation of a matrix and Cayley-Hamilton theorem.	14
5	Isomorphisms for vector spaces, Isomorphism theorems for vector spaces, Invertibility and Isomorphisms.	8
	TOTAL	60

Book References:

1. Gallian, Joseph. A. (2013). Contemporary Abstract Algebra (8th ed.). Cengage Learning India Private Limited. Delhi. Fourth impression, 2015.
2. Herstein, I. N. (2006). Topics in Algebra (2nd ed.). Wiley Student Edition. India.
3. Friedberg, Stephen H., Insel, Arnold J., & Spence, Lawrence E. (2003). Linear Algebra (4th ed.). Prentice-Hall of India Pvt. Ltd. New Delhi.
4. Kumaresan, S. (2000). Linear Algebra: A Geometric Approach, Prentice Hall India Learning Private Limited, New title Edition.
5. Hoffman, Kenneth & Kunze, Ray Alden (1978). Linear Algebra (2nd ed.). Prentice-Hall of India Pvt. Limited. Delhi. Pearson Education India Reprint, 2015.

SEMESTER – V

MJC-09: Multivariate Calculus

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: The conceptual variations when advancing in calculus from one variable to multivariable discussions.

CO2: Inter-relationship amongst the line integral, double and triple integral formulations.

CO3: Applications of multi variable calculus tools in physics, optimization, and understanding the architecture of curves and surfaces in plane and space etc.

MJC-09 : Multivariate Calculus (5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Functions of several variables, Limits and continuity, Partial derivatives, Euler's theorem, Higher order partial derivatives, Total differential and differentiability, Schwarz and Young's theorem, Chain rule.	12
2	Directional derivatives, Gradient, Maximal and normal property of the gradient, Tangent planes and normal lines, Level curves and surfaces, Gradient and Tangents to Level curves, Extrema of functions of two variables, Critical points, Saddle points, Method of Lagrange multipliers.	12
3	Double integrals in Cartesian and polar co-ordinates, area and surface area, Triple integrals, Volume by triple integrals, triple integrals in cylindrical and spherical coordinates, Change of variables in double and triple integrals.	14
4	Line integrals, Applications of line integrals: Mass and Work, Fundamental theorem for line integrals, Definition of vector field, Conservative vector fields, Divergence and curl.	12
5	Green's theorem- Tangential and Normal form, Evaluation of line integrals using Green's theorem, Surface integrals, Stokes' theorem, The Gauss divergence theorem.	10
	TOTAL	60

Book References:

1. Malik, S.C. & Arora, Savita (2017). Mathematical Analysis, New Age International Private Limited.
2. Strauss, Monty J., Bradley, Gerald L., & Smith, Karl J. (2007). Calculus (3rd ed.). Dorling Kindersley (India) Pvt. Ltd. (Pearson Education). Delhi. Indian Reprint 2011.
3. Marsden, J. E., Tromba, A., & Weinstein, A. (2004). Basic Multivariable Calculus. Springer (SIE). First Indian Reprint.
4. George B. Thomas, Joel Hass, Christopher Heil, Maurice D. Weir, Thomas' Calculus, 14e Paperback, Pearson Education.
5. Prasad Lalji, Advanced Calculus, Paramount Publications, Revised Edition (2015).

SEMESTER – VI
MJC-10: Complex Analysis

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the significance of differentiability of complex functions leading to the understanding of Cauchy-Riemann equations.

CO2: Evaluate the contour integrals and understand the role of Cauchy-Goursat theorem and the Cauchy integral formula.

CO3: Expand some simple functions as their Taylor and Laurent series, get familiar with the linear transformation and Mobius transformation.

MJC-10: Complex Analysis (4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to complex number and its geometrical interpretation, algebra of complex numbers, functions of complex variables, limit of a complex function, continuity and uniform continuity, differentiability, Analytic and regular functions, Cauchy-Riemann equation and it's applications.	08
2	Exponential function, logarithmic function, Branches and derivatives of logarithms, trigonometric and hyperbolic functions, derivatives of functions, Definite integrals of functions, Contours, Contour integrals with examples, Upper bounds for moduli of contour integrals.	08
3	Complex integration, Cauchy's theorem, Cauchy's Goursat theorem, primitives, Cauchy's integral formula, Cauchy's integral formula for the derivative of an analytic function, Morera's theorem, Poisson's integral formula for a circle, Cauchy's inequality, Liouville's Theorem and Fundamental theorem of Algebra.	08
4	Convergence of sequences and series, Taylor series with examples; Laurent series and its examples, Absolute and uniform convergence of power series, Uniqueness of series representations of power series.	08
5	Linear Transformation, Jacobian of a transformation, Elementary transformations: translation, rotation, magnification, inversion, Mobius transformation (bilinear transformation), Cross ratio, preservation of cross ratio under bilinear transformation, fixed point of a bilinear transformation.	08
	TOTAL	40

Book References:

1. Brown, James Ward, & Churchill, R. V. (2014). Complex Variables and Applications (9th ed.). McGraw-Hill Education. New York.
2. S. Ponnusamy, (2011) Foundation of complex Analysis, Alpha Science International Ltd. UK.
3. Bak, Joseph & Newman, Donald J. (2010). Complex analysis (3rd ed.). Undergraduate Texts in Mathematics, Springer. New York.
4. Zills, Dennis G., & Shanahan, Patrick D. (2003). A First Course in Complex Analysis with Applications. Jones & Bartlett Publishers, Inc.
5. Mathews, John H., & Howell, Rusell W. (2012). Complex Analysis for Mathematics and Engineering (6th ed.). Jones & Bartlett Learning. Narosa, Delhi. Indian Edition.

SEMESTER – VI

MJC-11: Metric Space

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the basic concepts of metric spaces;

CO2: Correlate these concepts to their counter parts in real analysis;

CO3: Understand the abstractness of the concepts such as open balls, closed balls, compactness, connectedness etc. beyond their geometrical imaginations.

MJC-11: Metric Space (5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Definition and examples of metric spaces, notion of Open and closed ball, Neighborhood of a point, Open set, Interior point, Interior of a set, Limit point of a set, Derived set, Closed set, Closure of a set, Diameter of a set, Dense set, Subspaces.	12
2	Sequences in metric spaces, Cauchy sequences, Complete metric space, Cantor's intersection theorem, Baire's category theorem, Contraction mapping, Banach fixed point theorem.	12
3	Continuous mappings, Sequential criterion and other characterizations of continuity, Uniform continuity, Homeomorphism.	10
4	Connectedness, Connected subsets of R, Connectedness and continuous mappings.	08
5	Compactness, boundedness, Continuous functions on compact spaces.	08
	TOTAL	50

Book References:

1. Kumaresan, S. (2014). Topology of Metric Spaces (2nd ed.). Narosa Publishing House. New Delhi.
2. Simmons, G. F. (2004). Introduction to Topology and Modern Analysis. Tata McGraw Hill. New Delhi.
3. E.T. Copson, (1968) Metric Spaces, Cambridge University Press
4. S. Shirali and H.L. Vasudeva, Metric Spaces, Springer.
5. P. K. Jain and K. Ahmad, Metric Spaces, Narosa Publishing House.

SEMESTER – VI
MJC-12: Riemann Integration and Series of Functions

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: Some of the families and properties of Riemann integrable functions, and the applications of the fundamental theorems of integration.

CO2: Apply Beta and Gamma functions and their properties in finding improper integrals, area under a curve and surface of revolution.

CO3: The valid situations for the inter-changeability of differentiability and integrability with infinite sum, and approximation of transcendental functions in terms of power series.

MJC-12: Riemann Integration and Series of Functions (5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Definition and existence of Riemann Integral of bounded functions,Darboux theorem,necessary and sufficient condition for R-Integrability, Riemann integrability of continuous functions, monotonic function and function having finite number of discontinuities, Riemann integral as the limit of a sum, fundamental theorem of integral calculus, Mean value theorems.	14
2	Improper integrals of Type-I, Type-II and mixed type, test for convergence of improper integral such as comparison test and μ-test, Convergence of Beta and Gamma functions and their properties.	12
3	Pointwise and uniform convergence of sequence of functions, Cauchy criterion for uniform convergence, theorems on boundedness, continuity, derivability and integrability of the limit function of a sequence of functions with uniform convergence.	08
4	Series of functions, Theorems on the continuity, integrability and derivability of the sum function of a uniformly convergence series of functions, Cauchy criterion for uniform convergence and Weierstrass M-Test.	08
5	Power series, radius of convergence, Cauchy Hadamard Theorem, Differentiation and integration of power series, Abel's Theorem, Weierstrass Approximation Theorem.	08
	TOTAL	50

Book References:

1. Bartle, Robert G., & Sherbert, Donald R. (2015). Introduction to Real Analysis (4th ed.). Wiley India Edition. Delhi.
2. Ghorpade, Sudhir R. & Limaye, B. V. (2006). A Course in Calculus and Real Analysis. Undergraduate Texts in Mathematics, Springer (SIE). First Indian reprint.
3. Ross, Kenneth A. (2013). Elementary Analysis: The Theory of Calculus (2nd ed.). Undergraduate Texts in Mathematics, Springer.
4. Shanti Narayan, Elements of Real Analysis, S. Chand Publication.
5. S. Ponnusamy, Foundations of Mathematical Analysis, Birkhasuer.
6. K K Jha, Advanced Real Analysis.
7. S.K. Mapa, Introduction to Real Analysis, Sarat Book Distributor, Kolkata.

SEMESTER – VII

MJC-13: Ring Theory and Linear Algebra-II

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Appreciate the significance of factorization in rings and integral domains.
CO2: Compute the characteristic polynomial, eigenvalues, eigenvectors, and eigenspaces, as well as the geometric and the algebraic multiplicities of eigenvalues.
CO3: Compute inner products and determine orthogonality on vector spaces, including Gram-Schmidt orthogonalization to obtain orthonormal basis.

MJC-13: Ring Theory and Linear Algebra-II (5 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Field of quotients of an integral domain, Embedding of rings, Polynomial rings, The Division algorithm and consequences, The Remainder Theorem, The Factor Theorem, Irreducible Polynomials, Reducible polynomials, Primitive Polynomial, Gauss's Lemma, Irreducibility tests, Unique factorization domains.	14
2	Linear Functionals, Dual spaces, dual basis, Double dual, Annihilators, Transpose of a linear transformation and its matrix in the dual basis.	12
3	Eigenspaces of a linear operator, Diagonalization of Linear Operators, Invariant subspaces, The minimal polynomial for a linear operator.	10
4	Inner products and Norms, Orthonormal basis, Gram-Schmidt orthogonalization process, Orthogonal complements, Bessel's inequality.	10
5	The adjoint of a linear operator, Least squares approximation, Minimal solutions to systems of linear equations, Normal and Self-Adjoint Operators, Unitary and orthogonal operators	14
	TOTAL	60

Book References:

1. Gallian, Joseph. A. (2019). Contemporary Abstract Algebra (9th ed.), Cengage Learning India Private Limited.
2. Friedberg, Stephen H., Insel, Arnold J., & Spence, Lawrence E. (2022). Linear Algebra (5th ed.), Pearson Education.
3. Herstein, I. N. (2006). Topics in Algebra (2nd ed.). Wiley Student Edition. India.
4. Hoffman, Kenneth M., & Kunze, Ray Alden (1978). Linear Algebra (2nd ed.). Prentice-Hall of India Pvt. Limited. Delhi. Pearson Education India Reprint, 2015.
5. Kumaresan, S. (2000). Linear Algebra: A Geometric Approach, Prentice Hall India Learning Private Limited, New title Edition

SEMESTER – VII
MJC-15: Numerical Methods

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: Various numerical techniques to find the zeroes of nonlinear functions of single variable and solution of a system of linear equations up to a certain given level of precision.

CO2: Interpolation techniques to compute the values of functions for equal and unequal intervals.

CO3: Applications of numerical differentiation and integration to convert differential equations into difference equations for numerical solutions.

MJC-15: Numerical Methods (6 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Errors: Relative, Absolute, Round off, Truncation, Finding roots of Transcendental and Polynomial equations: Bisection method, Secant method, Regula-Falsi method, Newton-Raphson method, Fixed point iteration method, Rate of convergence.	12
2	Solution of system of linear algebraic equations: Partial pivoting, LU decomposition and its applications, Gaussian Elimination and Gauss Jordan methods, Gauss Jacobi method, Gauss Seidel method, SOR methods and their convergence analysis.	12
3	Finite differences, Interpolation, Newton's Forward and Backward interpolation, Stirling's Formula, Bessel formula, Newton's divided difference, Lagrange's Interpolation, Inverse Interpolation.	12
4	Numerical differentiation, Numerical Integration: Newton Cotes formula, Trapezoidal rule, Simpson's $1/3^{rd}$ rule, Simpsons $3/8^{th}$ rule, Gauss quadrature formula.	12
5	Solution of difference equation of the first order, General solution, Linear difference equation with constant co-efficient, Solution of ordinary differential equations one step method: Euler's and modified Euler's method, Picard's method, Runge-Kutta methods.	12
	TOTAL	60

Book References:

1. S. S. Sastry, Introductory Methods of Numerical Analysis: Prentice-Hall of India, 5th edition, 2012.
2. S. R. K. Iyengar, R. K. Jain and M. K. Jain, Numerical Methods for Scientific and Engineering Computation: New Age International, 6th edition, 2012.
3. V. Rajaraman, Computer oriented Numerical Methods: Prentice-Hall of India, 3rd edition, 2004.
4. E. Balaguruswamy, Numerical Methods: Mcgraw Hill Education, 1st edition, 1999.
5. Bradie, Brian. (2006). A Friendly Introduction to Numerical Analysis. Pearson Education, India. Dorling Kindersley (India) Pvt. Ltd. Third impression 2011.

SEMESTER – VIII

MJC-16: Mathematical Finance

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Interest rates and its types.

CO2: Financial markets and derivatives including options and futures.

CO3: Pricing and hedging of options, interest rate swaps and no-Arbitrage pricing concept.

MJC-16 : Mathematical Finance (Theory: 4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Interest rates, Types of rates, Measuring interest rates, Zero rates, Bond pricing, Forward rate, Duration, Convexity, Exchange traded markets and OTC markets.	10
2	Derivatives--Forward contracts, Futures contract, Options, Types of traders, Hedging, Speculation, Arbitrage, No Arbitrage principle, Short selling, Forward price for an investment asset.	10
3	Types of Options, Option positions, Underlying assets, Factors affecting option prices, Bounds on option prices, Put-call parity, Early exercise, Effect of dividends.	10
4	Binomial option pricing model, Risk neutral valuation (for European and American options on assets following binomial tree model), Lognormal property of stock prices, Distribution of rate of return, expected return.	10
	TOTAL	40

Book References:

1. Hull, J. C., &Basu, S. (2010). Options, Futures and Other Derivatives (7th ed.). Pearson Education. New Delhi.
2. Luenberger, David G. (1998). Investment Science, Oxford University Press. Delhi.
3. Ross, Sheldon M. (2011). An elementary Introduction to Mathematical Finance (3rd ed.). Cambridge University Press. USA.

Syllabus for Minor Courses (Mathematics) Semester-III to VIII

SEMESTER- III

MIC-03: Real Analysis

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand many properties of the real line and learn to define sequence in terms of functions.
CO2: Recognize bounded, convergent, divergent, Cauchy and monotonic sequences.
CO3: Apply tests for convergence and absolute convergence of an infinite series of real numbers.

MIC-03: Real Analysis (3 credits) Full Marks- 100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Dedekind theory of real numbers, Algebraic and order properties of R, Archimedean Property, Density Theorem, Completeness property of R, Bounded sets, Theorems on Suprema and Infima.	10
2	Sequence and its convergence, Bounded sequence, Monotone sequences, Subsequences, Limit of a sequence, Limit Theorem, Bolzano-Weierstrass theorem for sequences, Cauchy sequence, Cauchy's general principle of convergence.	10
3	Infinite series and their convergence, Cauchy Criterion, Tests for convergence: Comparison test, D'Alembert Ratio Test, Cauchy's root test, Rabbe's test, Logarithmic test, Cauchy integral test, Gauss's test, Alternating series, Leibnitz test, Absolute and Conditional convergence.	10
	TOTAL	30

Book References:

1. Bartle, Robert G., & Sherbert, Donald R. (2015). Introduction to Real Analysis (4th ed.). Wiley India Edition. New Delhi.
2. Ross, Kenneth A. (2013). Elementary Analysis: The theory of calculus (2nd ed.). Undergraduate Texts in Mathematics, Springer. Indian Reprint.
3. Malik, S. C. & Arora, Savita. (2021). Mathematical Analysis (6th ed.). New Age International Publishers, New Delhi.
4. Jha,K.K. Advanced Course in Real Analysis and Higher Analysis. New Bharat Publishing House.

SEMESTER-IV

MIC-04: Ordinary Differential Equations

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the concept of ordinary differential equation.
CO2: Solve first order linear and non-linear differential equation and linear differential equations of higher order using various techniques.
CO3: Apply these techniques to solve and analyze various mathematical models.

MIC-04: Ordinary Differential Equations (3 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Formulation of Differential equations and its order and degree, General, Particular and Singular solutions of differential equations, variables separable, Equations reducible to variables separable, Homogeneous differential equations, Equations reducible to homogeneous form, Exact differential equations and equations reducible to the exact form, Linear differential equations and equations reducible to linear form, Bernoulli equation.	10
2	Differential equations of first order but not of first degree, Singular solutions, Clairaut's form, Linear differential equation of order greater than one with constant coefficients, Cauchy- Euler Equation, Legendre's Linear Equation.	10
3	Second order linear differential equations with variable coefficients: Use of a known solution to find another, normal form, method of undetermined coefficient, variation of parameters, Total differential equation in three variables, Simultaneous differential equations.	10
	TOTAL	30

Book References:

1. Simmons, George F. (2016). Differential Equations with Applications and Historical Notes. Tata–McGraw Hill Publishing Company Limited, New Delhi.
2. Raisinghania, M.D. (2020). Ordinary and Partial Differential Equations (20th ed.). S. Chand Publication.
3. Bronson, R. &Coasta, Gabriel B. (2021). Schaum's Outline of Differential Equations (5th ed.). McGraw Hill.
4. Prasad, Lalji. (2019). Differential Equations. Paramount Publication.

SEMESTER – V

MIC-05: Theory of Real Functions

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: The concept of limit of a function.
CO2: The geometrical properties of continuous functions on closed intervals.
CO3: The applications of mean value theorem.

MIC-05: Theory of Real Functions (3 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Limit of functions, Sequential criterion for limits, Divergence criteria, Limit theorems, One-sided limits, Infinite limits and limits at infinity.	08
2	Continuous functions, Sequential criterion for continuity and discontinuity, Algebra of continuous functions, Properties of continuous functions on closed intervals.	10
3	Differentiability of a function, Algebra of differentiable functions, Increasing and Decreasing functions, Sign of derivatives,Darboux's theorem, Intermediate value theorem for derivatives, Rolle's theorem, Lagrange's and Cauchy's Mean value theorem and their applications.	12
	TOTAL	30

Book References:

1. Bartle, Robert G., & Sherbert, Donald R. (2015). Introduction to Real Analysis (4thed.). Wiley India Edition. New Delhi.
2. Ross, Kenneth A. (2013). Elementary Analysis: The theory of calculus (2nd ed.). Undergraduate Texts in Mathematics, Springer. Indian Reprint.
3. Malik, S. C. & Arora, S. (2021). Mathematical Analysis (6th ed.), New Age International Publishers, New Delhi.
4. Jha,K.K. Advanced Course in Real Analysis and Higher Analysis. New Bharat Publishing House.

SEMESTER- V

MIC-06: Group Theory

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, etc.

CO2: Explain the significance of the notion of cosets, normal subgroups, and factor groups.

CO3: Understand the concept of group homomorphism and isomorphism.

MIC-06: Group Theory (3 credits) Full Marks: 100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Definition and examples of groups, Elementary properties of groups, Subgroups and examples of subgroups, Generator of a group, Cyclic group, Properties of cyclic groups.	10
2	Permutations Group, Even and odd permutations, Alternating Group, Cosets and its properties, Lagrange's theorem, Fermat's Little theorem, Normal subgroups, Quotient groups, Center of a group, Normalizer of an element, Normalizer of a subgroup.	10
3	Group homomorphisms, Kernel of a group homomorphism, Fundamental theorem of group homomorphism, Isomorphisms, Properties of Isomorphisms, First, Second and Third isomorphism theorems for groups, Cayley's theorem.	10
	TOTAL	30

Book References:

1. Gallian, Joseph. A. (2013). Contemporary Abstract Algebra (8th ed.). Cengage Learning India Private Limited, Delhi. Fourth impression, 2015.
2. Herstein I. N. (2003). Topics in Algebra (2nd ed.). John Wiley & Sons.
3. Khanna, Vijay K. & Bhambri, S. K. A Course in Abstract Algebra (5th ed.). Vikash Publishing House Private Limited, New Delhi.
4. Fraleigh, John B. (2002). A Course in Abstract Algebra (7th ed.). Pearson Education.

SEMESTER- VI

MIC-07: Partial Differential equation

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Formulate, classify and transform partial differential equations into canonical form.

CO2: Solve linear and non-linear partial differential equations using various methods; and apply these methods in solving some physical problems.

CO3: Apply Laplace transformation for solving PDEs.

MIC-07: Partial Differential Equation (3 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to PDEs, Order and Degree of a PDE, Classification of partial differential equations (PDEs), formation and solution of PDEs, derivation of PDEs by elimination of arbitrary functions.	10
2	Linear partial differential equation of first order, Lagrange's solution of linear equation, Solution of partial differential equations using Charpit's method, solution of equations of the form f(p,q)=0, f(z,p,q)=0, f(x,p)=f(y,q) and z=px+qy+f(p,q) using Charpit's method.	10
3	Laplace transforms and its application to partial differential equations. Inverse Laplace transformations and its properties, convolutions.	10
	TOTAL	30

Book References:

1. Myint-U, Tyn& Debnath, Lokenath. (2007). Linear Partial Differential Equation for Scientists and Engineers (4th ed.). Springer, Third Indian Reprint, 2013.
2. Sneddon, I. N. (2006). Elements of Partial Differential Equations, Dover Publications. Indian Reprint.
3. M. D. Raisinghania, Ordinary and Partial Differential Equations, S. Chand Publication.
4. Peter J. Olver, Introduction to partial differential equations, Speringer
5. S.K. Pundir and R. Pundir, Advanced Partial Differential Equations (with boundary value problems), Pragati Prakashan.

SEMESTER- VI

MIC-08: Ring Theory and Linear Algebra

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: The fundamental concept of Rings, subrings, ideals and the corresponding homomorphisms.

CO2: The concept of linear independence of vectors over a field, the idea of a finite dimensional vector space, basis of a vector space and the dimension of a vector space.

MIC-08: Ring Theory and Linear Algebra (3 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Definition and examples of rings, properties of rings, subrings, characteristics of a subring, Ideal, Ideal generated by a subset of a ring, quotient ring, operation on ideals, prime and maximal ideals.	10
2	Ring homomorphisms, properties of ring homomorphism, isomorphism theorems.	10
3	Definition of linear space, general properties of linear space, vector subspaces, linear combination of vectors, linear span. Linear dependence and independence of vectors, basis of a vector space, finite dimensional vector spaces.	10
	TOTAL	30

Book References:

1. Gallian, Joseph. A. (2013). Contemporary Abstract Algebra (8th ed.). Cengage Learning India Private Limited. Delhi. Fourth impression, 2015.
2. Friedberg, Stephen H., Insel, Arnold J., & Spence, Lawrence E. (2003). Linear Algebra (4th ed.). Prentice-Hall of India Pvt. Ltd. New Delhi.
3. I.N. Herstein, Abstract Algebra, Prentice Hall, New Jersey.
4. Hoffman and Kunze, Linear Algebra.
5. Gilbert Strang, Linear Algebra and its Applications, Thomson, 2007.
6. Lalji Prasad, Linear Algebra, Paramount Publications.
7. S.K. Mapa, Higher Algebra (Abstract and Linear), Levant Books, Kolkata.

SEMESTER- VII

MIC-09: Multivariate Calculus

Course Outcomes

After the completion of the course, the student will be able to understand:

CO1: The conceptual variations when advancing in calculus from one variable to multivariable discussions.

CO2: Inter-relationship amongst the line integral, double and triple integral formulations.

CO3: Applications of multi variable calculus tools in different disciplines.

MIC-09 : Multivariate Calculus (4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Functions of several variables, Limits and continuity, Partial derivatives, Higher order partial derivatives, Euler's theorem on Homogeneous function	10
2	Double integrals in Cartesian and polar co-ordinates, Triple integrals, Change of variables in double and triple integrals.	10
3	Line integrals, Applications of line integrals: Mass and Work, Fundamental theorem for line integrals, Definition of vector field, Conservative vector fields, Divergence and curl.	10
4	Green's theorem- Tangential and Normal form, Evaluate line integrals using Green's theorem, Surface integrals, Stokes' theorem.	10
	TOTAL	40

Book References:

1. Malik, S.C. & Arora, Savita (2017). Mathematical Analysis, New Age International Private Limited.
2. Marsden, J. E., Tromba, A., & Weinstein, A. (2004). Basic Multivariable Calculus. Springer (SIE). First Indian Reprint.
3. Thomas' Calculus, 14e Paperback, George B. Thomas, Joel Hass, Christopher Heil, Maurice D. Weir, Pearson Education.
4. Prasad Lalji, Advanced Calculus, Paramount Publications, Revised Edition (2015).

SEMESTER- VIII

MIC-10: Complex Analysis

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the significance of differentiability of complex functions leading to the understanding of Cauchy-Riemann equations.

CO2: Evaluate the contour integrals and understand the role of Cauchy-Goursat theorem and the Cauchy integral formula.Expand some simple functions as their Taylor and Laurent series.

MIC-10: Complex Analysis (4 credits) Full Marks-100		
Unit	**Topics to be covered**	**No. of Lectures**
1	Introduction to complex number and geometrical interpretation, algebra of complex numbers, functions of complex variables, limit of a complex function, continuity and uniform continuity, differentiability, Analytic and regular function, Cauchy-Riemann equation and it's applications.	10
2	Exponential function, logarithmic function, Branches, trigonometric and hyperbolic functions, derivatives of functions, Definite integrals of functions, Contours, Contour integrals and its examples.	10
3	Complex integration, Cauchy's theorem, Cauchy's Goursat theorem (Statement only), primitives, Cauchy's integral formula, Cauchy's integral formula for the derivative of an analytic function, Morera's theorem.	10
4	Convergence of sequences and series, Taylor series and its examples; Laurent series and its examples, Absolute and uniform convergence of power series.	10
	TOTAL	40

Book References:

1. Brown, James Ward, & Churchill, Ruel V. (2014). Complex Variables and Applications (9th ed.). McGraw-Hill Education. New York.
2. S. Ponnusamy, (2011) Foundation of complex Analysis, Alpha Science International Ltd. UK.
3. Bak, Joseph & Newman, Donald J. (2010). Complex analysis (3rd ed.). Undergraduate Texts in Mathematics, Springer. New York.
4. Zills, Dennis G., & Shanahan, Patrick D. (2003). A First Course in Complex Analysis with Applications. Jones & Bartlett Publishers, Inc.
5. Mathews, John H., & Howell, Rusell W. (2012). Complex Analysis for Mathematics and Engineering (6th ed.). Jones & Bartlett Learning. Narosa Delhi. Indian Edition.

To,

The Principal Secretary,
Raj Bhavan, Bihar,
Patna

Sub:-**Regarding submission of proposed course uniform syllabus of .....Magahi..... for 3rd to 8th Semester of 4 - Year undergraduate Course, (CBSC)**

Reference:- Letter No.-BSU (UGC) -02/2023- 1457/ GS(I) dated 14.09.2023

Sir,

In compliance with your letter no. BSU(UGC)- 02/2023-1457/ GS(I) dated-14.09.2023 followed by above mentioned letter no, we are submitting the proposed course syllabus of .....Magahi..... for 3rd to 8th semester of the 4 - year under graduate course (CBCS) as per UGC regulations.

Yours sincerely

21.09.23
(प्रो० ब्रजेश कुमार राय)

MJC-03

MAJOR CORE COURSE

Syllabus

मगही कहानी साहित्य : (कथा आउ लघु कथा)

इकाई–01

प्रतिनिधि मगही दलित कहानी संग्रह

- ❖ मंदिर के मूरती–डॉ० सत्येन्द्र सुमन
- ❖ मंगरू–डॉ० जितेन्द्र वत्स
- ❖ सुक्खू डोम–डॉ० राम प्रसाद सिंह
- ❖ कजरीया–घमंडी राम
- ❖ एगो आउ अहिल्या–डॉ० अंजनी कुमार
- ❖ लेलहा–प्रो० मीनाक्षी सिंह
- ❖ आखिर कहिया तक–राम विनय सिंह विनय

इकाई–02

कथा सागर

- ❖ ऊंच खाल–डॉ० वीर विजय कुमार सिंह 'बेसुध
- ❖ अलका–राम पारीख
- ❖ सितबिया–डॉ० रामविलास 'रजकण'
- ❖ आधा पुआ–मुनि लाल सिन्हा 'सीशम'
- ❖ कहानी के नायिका–केशव प्रसाद वर्मा

इकाई–03

मगही कथा सरोवर

- ❖ राम के वनवास–डॉ० श्यामनंदन शास्त्री 'हंसराज'
- ❖ फुलमतिया–डॉ० स्वर्ण किरण
- ❖ अप्पन घर–डॉ० किरण अर्याणी मित्रा
- ❖ सावित्री–डॉ० अभिमन्यु प्रसाद मौर्य

इकाई–04

किलमनजारो

- ❖ संपादक कृष्ण मोहन प्यारे समय प्रकाशन, जगदंबा प्रिंटींग प्रेस, दरियापुर गोला रोड, पटना
- ❖ केंचुल–चक्रधर
- ❖ भर खोइंछा अनाज–कृष्ण मोहन प्यारे

इकाई–05

लघु कथा छतीसी

- ❖ अंदाजा–राम रतन यादव
- ❖ मोहरवे छुट गेल–उमेश प्रसाद उदय
- ❖ अछूत–बीरेन्द्र कुमार भारद्वाज
- ❖ बेटी के दरद–प्रो० लक्ष्मीचंद्र प्रियदर्शी
- ❖ उग्रवादी–सी०रा० प्रसाद
- ❖ नेता बने के मोका – उमाशंकर सिंह

अथवा

जमनाथसिंह अजेश कुमार राम

निर्धारित सहायक ग्रंथ

1. प्रतिनिधि मगही दलित कहानी संग्रह
   संपादक – घमंडी राम
   प्रकाशक – शाश्वत प्रकाशन, विलासपुर, छत्तीसगढ़

2. कथा सागर
   संपादक – डॉ० दिलीप कुमार
   प्रकाशक – मगही साहित्य सम्मेलन, अछुआ, पटना

3. मगही कथा सरोवर
   संपादक – डॉ० अभिमन्यु प्रसाद मौर्य एवं डॉ० दिलीप कुमार
   प्रकाशक – मौर्य प्रकाशन, रामलखन महतो रोड, पुराना जक्कनपुर, पटना 800001

4. किलमनजारो संपादन कृष्णमोहन प्यारे केंचुल–चक्रधर
   भर खोइंछा अनाज – कृष्ण मोहन प्यारे

5. लघुकथा छत्तीसी
   संपादक – डॉ० अभिमन्यु प्रसाद मौर्य एवं डॉ० उमाशंकर सिंह
   प्रकाशक – मौर्य प्रकाशन, रामलखन महतो रोड, पुराना जक्कनपुर, पटना–800001

निर्देश

- सवाल के समय तीन घंटा होयत,
- हरेक इकाई से सवाल जरूरी होयत
- कुल छः सवाल में से तीन सवाल के जवाब जरूरी होयत
- दीर्घ उत्तरीय इया आलोचनात्मक के तीन सवाल
- वस्तुनिष्ठ के दस सवाल में बंटल होयत

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघुत्तरी इया व्याख्यात्मक सवाल	(03x05=15)
वस्तुनिष्ठ सवाल	(10x01=10)
टिप्पणी	(04x05=20)
आंतरिक मूल्यांकन	= 10 अंक
	कुल अंक = 100 अंक

MJC-04

MAJOR CORE COURSE

मगही के भाषा विज्ञान

इकाई–01

भाषा के परिभाषा आउ विसेसता
भाषा के उत्पत्ति

इकाई–02

अर्थ–परिवर्त्तन के कारण आउ दिशा
ध्वनि–परिवर्त्तन के कारण

इकाई–03

मगही भासा के विकास–क्रम
विश्व के भासा में मगही के स्थान
मगही भासा के व्याकरणिक कोटियन
भासा आउ बोली में अंतर

इकाई–04

मगही भासा के उपबोली–खोरठा, पंचपरगनिया, कुरमाली, नगपुरिया
भासा के कारक–तत्व
मगही के क्षेत्र–विस्तार

संदर्भ–ग्रंथ

1. मगही भाषा–डॉ० युगेश्वर पांडेय
2. हिन्दी–मगही की व्याकरणिक कोटियाँ–उॉ0 सरोज कुमार त्रिपाठी
3. मगही भाषा– डॉ0 राजीव रंजन
4. मगही अर्थविज्ञान का विश्लेषणात्मक निर्वचन–डॉ०ब्रजमोहन पांडेय 'नलिन'
5. मगही शब्दानुसासन–डॉ० राम नरेश मिश्र हंस
6. मगही एवं खोरठा का तुलनात्मक अध्ययन– डॉ० शिव नंदन प्रा० सिन्हा
7. बिहारी बोलियों के आंतरिक एक रूपता–डॉ० नलिनी मोहन सान्याल
8. मगही भाषा और साहित्य–डॉ० संपत्ति आर्याणी
9. मगही भाषा का इतिहास–रास बिहारी पांडेय
10. मगही की संयुक्त क्रियाएँ–डॉ० कुमार इन्द्र देव
11. मगही क्रियाओं का भाषा वैज्ञानिक अध्ययन–डॉ० शीला वर्मा

अंक विभाजन

1. लमहर सवाल	(03x15=45)
2. लघु उत्तरीय	(04x05=20)
3. टिप्पणी	(03x05=15)
4. वस्तुनिष्ठ प्रश्न	(10x01=10)
5. आंतरिक मूल्यांकन	(10x01=10)

कुल = 100 अंक

जयनाथसिंह

प्रवेश कुमार राय

MJC मगही 05

MAJOR CORE COURSE

काव्य शास्त्र (भारतीय आउ पाश्चात्य)

इकाई–01

काव्य–हेतु
काव्य–प्रयोजन
काव्य के लक्षण

इकाई–02

रस, अलंकार, छंद, बिम्ब आउ कल्पना अलंकार–विभावना, यमक, श्लेष, रूपक, उत्प्रेक्षा, वक्रोक्ति, उपमा, दृष्टांत, विरोधाभास छंद–दोहा, चौपाई, सवैया, कवित, सोरठा, कुंडलिया, रोला

इकाई–03

शब्द–शक्ति–अभिधा, लक्षणा, व्यंजना

इकाई–04

अरस्तू के अनुकरण सिद्धांत, विरेचन सिद्धांत
–कालरिज के काव्य–सिद्धांत
–टी०एस०इलियट–निर्वैक्तिकता

इकाई–05

मगही समीक्षक

(i) डॉ० राम प्रसाद सिंह
(ii) डॉ० राम प्रसाद सिंह
(iii) डॉ० सत्येन्द्र कुमार सिंह
(iv) डॉ० लक्ष्मण चंद
(v) डॉ० दिलीप कुमार
(vi) डॉ० भरत सिंह

अंक विभाजन

1. आलोचनात्मक प्रश्न	(03x15=45)
2. लघु उत्तरीय	(03x05=15)
3. टिप्पणी	(4x05=20)
4. वस्तुनिष्ठ प्रश्न	(10x01=10)
5. आंतरिक मूल्यांकन	(10x01=10)

कुल = 100 अंक

सहायक ग्रंथ

1. मगही काव्य शास्त्र स्वरूप और विनियोग–डॉ० राम कृष्ण मिश्र
2. मगही काव्यांग–डॉ० लक्ष्मी चंद प्रियदर्शी

जयनाथ सिंह

ब्रजेश कुमार राय

MJC-06
आधुनिक मगही कविता

श्री नंदन शास्त्री,	देव नंदन विकल, राम नरेश पाठक
कृष्णदेव प्रसाद,	सविता मिश्र मागधी, कुमारी राधा
मथुरा प्रसाद नवीन	प्रो० मीनाक्षी सिंह
परमेश्वरी	सच्चिदानंद प्रेमी
कृष्ण मोहन प्यारे	राम कृष्ण मिश्र
शिव प्रसाद लोहानी	कन्हैया लाल मेहरवार
राम पुकार सिंह राठौर	जयनाथ कवि
राम सिंहासन विद्यार्थी	राम प्रवेश रश्मि
राम सिंहासन सिंह	हरीन्द्र विद्यार्थी
घमंडी राम	डॉ० नूतन
डॉ० सत्येन्द्र सुमन	सुभाष चंद्र किंकुर
राम नगीना मगहिया	सतीश कुमार मिश्र
पवन तनय	डॉ० आर० इसरी
दशई सिंह	जयराम सिंह
रणजीत दुधु	उमेश प्रसाद
संजीव मुकेश	शिव कुमार
उदय कांत शर्मा	नचिकेता

मगही के प्रतिनिधि कविता–संपादक मंडल

- ❖ डॉ० राम सिंहासन सिंह
- ❖ डॉ० भरत सिंह
- ❖ डॉ० उमाशंकर सिंह
- ❖ जयनाथ कवि
- ❖ डॉ० सत्येन्द्र कुमार सिंह
- ❖ डॉ० ब्रजेश कुमार राय

जयनाथ सिंह

ब्रजेश कुमार राय

अंक विभाजन

पूर्णांक–100

1. प्रश्न तीन घंटा के होएत।
2. हरेक इकाई से प्रश्नोत्तर जरूरी होएत।
3. सभ प्रश्न के विकल्प देल गयल हे।
4. आलोचना के तीन प्रश्न रहत।
5. व्याख्यात्मक प्रश्न दू गो रहत।
6. वस्तुनिष्ठ प्रश्न के दस प्रश्न रहत। सब के लेल। अंक निर्धारित हे।

(क) आलोचनात्मक प्रश्न (तीन गो)	(15x03=45)
(ख) व्याख्यात्मक प्रश्न (दू गो)	(10x02=20)
(ग) वस्तुनिष्ठ प्रश्न	(10x01=10)
(घ) लघु उत्तरीय प्रश्न	(03x05=15)
(ड़) आंतरिक मूल्यांकन	(10)

कुल = 100 अंक

सहायक ग्रंथ–

1. आधुनिक मगही काव्य की प्रवृत्तियाँ–डॉ० राम गोपाल पांडेय
2. मगही काव्य स्वरूप और प्रवृतियाँ–डॉ० मंजुला सांगा
3. आधुनिक मगही गीत स्वरूप और विश्लेषण–डॉ० भरत सिंह
4. आधुनि मगही साहित्य– प्रो० कपिलदेव सिंह
5. सतरोत्तरी मगही कविता स्वरूप और विशलेषण–डॉ० कृष्ण कुमार वर्मा
6. मगही कविता में बिम्ब–डॉ० शेषानंद मधुकर
7. मगही काव्य में विरह–वर्णन–डॉ० इन्द्रदेव प्रसाद यादव

ब्रजेश कुमार राय

MJC-07

मगही लोक साहित्य

इकाई–01

लोक गीत

लोक कथा, लोक वार्त्ता

इकाई–02

लोक गाथा

इकाई–03

मुहावरा, लोकोक्ति, पहेली, दसकूटक

इकाई–04

लोक साहित्य के स्वरूप आउ विकास

लोक संस्कृति

इकाई–05

मगही लोक साहित्य के सर्वेक्षणात्मक कारज

मगही लोक साहित्य के सुसंथापन कारज के संस्था

अंक विभाजन

(क)	आलोचनात्मक प्रश्न	(15x03=45)
(ख)	लघु उत्तरीय प्रश्न	(02x10=20)
(ग)	टिप्पणी	(03x05=15)
(घ)	वस्तुनिष्ठ प्रश्न	(10x01=10)
(ड़)	आंतरिक मूल्यांकन	(10x01=10)

कुल = 100 अंक

सहायक ग्रंथ

1. मगही लोक साहित्य एक अध्ययन– डॉ० संपत्ति अर्याणी
2. मगही लोक नाट्यः अनुशीलन एवं संचयन– डॉ० राम प्रसाद सिंह
3. मगही लोक कथा : अनुशीलन एवं संचयन– डॉ० राम प्रसाद सिंह
4. मगही लोक साहित्य की सामासिक संस्कृति– डॉ० ब्रजेश कुमार राय, जानकी प्रकाशन, पटना।

जयनाथ सिंह ब्रजेश कुमार राय

MJC-08

मगही लोक कला आउ लोक संगीत

इकाई–01

लोक कला से तात्पर्य, परिभाषा आउ तत्त्व

लोक कला के प्रकार / पटना कलम / गया कलम / मगध के चित्रकला

इकाई–02

लोक वाद्य

लोक नृत्य

लोक गायन

इकाई–03

लोक कलाकार के परिचय–

इकाई–04

लोक संगीत आउ लोक संस्कृति

इकाई–05

लोक बालगीत / बाल खेल

परभाती / परात काली

मगही के देव–देवी गीत

अंक विभाजन

(क)	आलोचनात्मक प्रश्न	(15x03=45)
(ख)	लघु उत्तरीय प्रश्न	(03x05=15)
(ग)	टिप्पणी	(02x05=10)
(घ)	वस्तुनिष्ठ प्रश्न	(10x02=20)
(ड़)	आंतरिक मूल्यांकन	(10x01=10)

कुल = 100 अंक

जयनाथसिंह ब्रजेश कुमार राय

MJC-09

मगही साहित्य का इतिहास (मध्यकाल से आधुनिक काल)

इकाई–01

काल–विभाजन आउ नामकरण

इकाई–02

मगध साहित्य के पृष्ठाधार–

इकाई–03

मध्यकालीन कवि–पलटू दास, सूरज दास, धमरदास, बदरी दास, चंदन दास, कबीर दास, दलेल सिंह, हरिनाथ पाठक, याहिया मनेरी, मकदूम सरफा, राम सनेही दास

इकाई–04

भविष्य काल (सगुन आउ निरगुन) स्वरूप आउ साहित्यिक प्रवृत्ति

इकाई–05

परवर्ती काल (आधुनिक काल) सर्वेक्षण काल, जागरण काल, विकास काल स्वरूप आउ साहित्यिक प्रवृत्ति मगही साहित्य के विविध विधा के विकास

अंक विभाजन

(क)	आलोचनात्मक प्रश्न	(15x03=45)
(ख)	लघु उत्तरीय प्रश्न	(02x05=10)
(ग)	टिप्पणी	(03x05=15)
(घ)	वस्तुनिष्ठ प्रश्न	(10x02=20)
(ड़)	आंतरिक मूल्यांकन	(10x01=10)

कुल = 100 अंक

सहायक ग्रंथ

1. मगही साहित्य का इतिहास–डॉ० सत्येन्द्र कुमार सिंह
2. मगही साहित्य का आलोचनात्मक इतिहास–डॉ० लक्ष्मण प्रसाद चंद
3. मगही साहित्य का इतिहास–संपादक डॉ० राम प्रसाद सिंह

जयनाथ सिंह

Comte

महेश कुमार राय

MJC-10
मगही के कथेत्तर साहित्य

इकाई–01

जीवनी साहित्य

संस्मरण साहित्य

इकाई–02

शब्द चित्र साहित्य

इकाई–03

यात्रा–वृतांत साहित्य

इकाई–04

गीति नाट्य

अंक विभाजन

(क) आलोचनात्मक प्रश्न	(15x03=45)
(ख) लघु उत्तरीय प्रश्न	(03x05=15)
(ग) टिप्पणी	(02x05=10)
(घ) वस्तुनिष्ठ प्रश्न	(10x02=20)
(ड़) आंतरिक मूल्यांकन	(10x01=10)

कुल = 100 अंक

सहायक ग्रंथ

1. मगही जतरा–डॉ० भरत सिंह एवं डॉ० चंचला कुमारी
2. घुमक्कड़ी–संपादक अवधेश कुमार सिन्हा एवं डॉ० दिलीप कुमार
3. श्री मगही महापद यात्रा वृतांत–ऋचाझा
4. गलबात–शिव प्रसाद लोहानी
5. गोबर गनेस–सं० प्रो० अवधेश प्रसाद सिन्हा
6. जिंदगी अतुकांत कविता–सं० घमंडी राम
7. मगही के जीवनी साहित्य–संपादक मंडल–
   डॉ० सत्येन्द्र कुमार सिंह, डॉ० भरत सिंह, डॉ० राम सिंहासन सिंह, प्रो० जयनाथ कवि।

पढ़ल जाये वाला पाठ

- धनरूआ के लिट्टी
- हमर अंग जतरा
- जब हम रजरप्पा गोली हल
- हमर कलकता जतरा
- मरूभूमि के जतरा
- बिहार के सिमला ककोलत
- बाबा के नगरिया
- पश्चिम भारत के भ्रमण
- जहाँ मिल तथागत के गयान।
- कलटुआ
- हरिहर बाबा
- मगही संस्मरण सुरेश कुमार विमल
- मगहियाजी

जयनाथ सिंह

ब्रजेश कुमार राय

MJC-11

मगही प्रबंध काव्य

इकाई–01

कुन्ती

- ❖ कुन्ती का चरित्र–चित्रण
- ❖ कुन्ती काव्य के भाषा–शैली
- ❖ कुन्ती में कर्ण का स्थान
- ❖ कुन्ती में नारी विमर्श

इकाई–02

आम्रपाली

- ❖ आम्रपाली का ऐतिहासिकता
- ❖ सौंदर्य के धरातल पर आम्रपाली
- ❖ आम्रपाली के भाषा–शैली

इकाई–03

सुमित्रा–मुचकुंद शर्मा

- ❖ इतिहास आउ कल्पना
- ❖ चरित्र–चित्रण
- ❖ महाकाव्यात्मक विसेसता

इकाई–04

मखली गोसाल–बाबूलाल मधुकर

- ❖ वस्तु–विधान
- ❖ चरित्र–चित्रण
- ❖ साहित्यिक–सौंदर्य

इकाई–05

शबरी–डॉ० ब्रजमोहन पांडेण नलिन

- ❖ इतिहास आउ कल्पना
- ❖ चरित्र–चित्रण
- ❖ साहित्यिक–सौंदर्य

जयनाथ सिंह

सहायक ग्रंथ

1. कुन्ती–प्रो० अवधेश कुमार सिन्हा
   प्रकाशक–मगही साहित्य सम्मेलन, अछुआ, पटना
2. सुमित्रा–मुचकुंद शर्मा
3. मखली गोसाल–बाबूलाल मधुकर
4. शबरी–डॉ० ब्रजमोहन पांडेण नलिन
5. आम्रपाली–चंद्र प्रकाश माया
   प्रकाशक–बिहार मगही अकादमी, पटना–23

निर्देश

सवाल के समय तीन घंटा होएत,

हरेक इकाई से सवाल जरूरी होएत

कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत

दीर्घ उत्तरीय इया आलोचनात्मक के तीन सवाल

वस्तुनिष्ठ के दस सवाल में बँटल होएत

अंक विभाजन

(क)	आलोचनात्मक प्रश्न	(03x15=45)
(ख)	लघु उत्तरीय प्रश्न	(03x05=15)
(ग)	वस्तुनिष्ठ प्रश्न	(10x01=10)
(घ)	टिप्पणी	(04x05=20)
(घ)	आंतरिक मूल्यांकन	(10)

कुल = 100 अंक

जयनाथ सिंह

Complete

उमेश कुमार राय

MJC-12
मगही के उपन्यास साहित्य

इकाई–01

- ❖ अंगुठिया निशानी की भाषा–शैली
- ❖ अंगुठिया निशानी में प्रेम भावना

इकाई–02

- ❖ तेजू उपन्यास में शोषण मूलक व्यवस्था पर कैल गेल चोट
- ❖ तेजू उपन्यास के भाषा में ठेठ मगहीपन

इकाई–03

- ❖ प्राणी महासंघ के कथ्य पर विचार
- ❖ प्राणी महासंघ उपन्यास के उद्देश्य

इकाई–04

- ❖ वस एक्के राह के कथा पर विचार
- ❖ वस एक्के राह उपन्यास के चरित्र–चित्रण

निर्देश

सवाल के समय तीन घंटा होएत,
हरेक इकाई से सवाल जरूरी होएत
कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
दीर्घ उत्तरीय इया आलोचनात्मक के तीन सवाल
वस्तुनिष्ठ के दस सवाल के बंअल होएत

अंक विभाजन

(क)	आलोचनात्मक प्रश्न	(03x15=45)
(ख)	लघु उत्तरीय प्रश्न	(03x05=15)
(ग)	वस्तुनिष्ठ प्रश्न	(10x01=10)
(घ)	आंतरिक मूल्यांकन	(10)
(ड़)	टिप्पणी	(04x05=20)

कुल = 100 अंक

सहायक ग्रंथ

1. अंगुठिया निशानी–शशिभूषण उपाध्याय 'मधुकर'
   प्रकाशक–मगही साहित्य सम्मेलन, अछुआ, पटना
2. तेजू–अलखदेव प्रसाद'अचल'
   प्रकाशक–मगधांचल पब्लिकेशन, पचरूखिया मोड़, औरंगाबाद
3. प्राणी महासंघ–मुनिलाल सिन्हा 'सीशम'
   प्रकाशक–सीशम प्रकाशन, मखदुमपुर
4. वस एक्के काह–केदार अजेय

जगन्नाथ सिंह

राजेश कुमार राय

MJC-13

मगही के निबंध साहित्य

इकाई–01

मगही निबंध : परिभाषा, स्वरूप

मगही निबंध के तत्त्व आउ प्रकार

इकाई–02

मगही के प्रमुख निबंधकार

इकाई–03

मगही के ललित निबंध

इकाई–04

मगही के ललित निबंधकार

इकाई–05

मगही निबंध के विकास

अंक विभाजन

(क)	आलोचनात्मक प्रश्न	(15x03=45)
(ख)	लघु उत्तरीय प्रश्न	(04x05=20)
(ग)	टिप्पणी	(03x05=15)
(घ)	वस्तुनिष्ठ प्रश्न	(10x01=10)
(ड़)	आंतरिक मूल्यांकन	(10)

कुल = 100 अंक

प्रस्तावित संदर्भ ग्रंथ

1. मगही निबंध सौरभ–डॉ० सम्पति अर्याणी, बिहार मगही अकादमी, पटना
2. ललित निबंध आउ लोक साहित्य–डॉ० राम प्रसाद सिंह
3. अंतर–मंतर घोंघा सारी– डॉ० रामकृष्ण प्रसाद मिश्र
4. चमोकन–रामनरेश प्रसाद वर्मा
5. मगही संस्कृति आइ दोसर निबंध–डॉ० स्वर्ण किरण
6. निबंध भारती–डॉ० दिलीप कुमार

जयनाथ सिंह

ब्रजेश कुमार राय

MJC-14

मगही पत्रकारिता

इकाई–01

मगही पत्रकारिता के उद्‌भव आउ विकास

इकाई–02

मगही साहित्य में पत्रकारिता

इकाई–03

मगही के प्रमुख पत्रकार

- ❖ डॉ० श्रीकांत शास्त्री
- ❖ डॉ० रामनंदन
- ❖ डॉ0 बाबूलाल मधुकर
- ❖ डॉ0 रामप्रसाद सिंह
- ❖ मिथिलेश
- ❖ डॉ0 भरत सिंह
- ❖ डॉ0 अभिमन्यु प्रसाद मौर्य
- ❖ डॉ0 उमाशंकर सिंह 'सुमन'
- ❖ डॉ0 सत्येन्द्र कुमार सिंह

निर्धारित सहायक ग्रंथ

1. मगही पत्रकारिता उद्भव आउ विकास– डॉ0 दिलीप कुमार
2. पत्रकारिता के विविध संदर्भ– डॉ0 वंशीधर लाल
3. पत्रकारिता और साहित्य– क्षमा शर्मा
4. श्रव्य–दृश्य माध्यम लेखन– डॉ0 राजेन्द्र मिश्र

निर्देश

सवाल के समय तीन घंटा होएत
हरेक इकाई से सवाल जरूरी होएत
कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
वस्तुनिष्ठ सवाल

अंक विभाजन

(क)	आलोचनात्मक प्रश्न	(03x15=45)
(ख)	लघु उत्तरीय प्रश्न	(03x05=15)
(ग)	वस्तुनिष्ठ प्रश्न	(10)
(घ)	आंतरिक मूल्यांकन	(10)
(ड़)	टिप्पणी	(20)
		कुल = 100 अंक

जयनाथ सिंह

राजेश कुमार राय

MJC-15

मगही नाटक आउ एकांकी

इकाई–01

'अँचरवा के लाज' के कथावस्तु में इतिहास आउ कल्पना

–नायक कुंअर सिंह के चरित्र–चित्रण।

– भाषा आउ शैली, राष्ट्रीयता।

इकाई–02

'कोसा' के कथावस्तु, चरित्र–चित्रण, संवाद–योजना।

इकाई–03

'मगही शकुंतला' के कथावस्तु, चरित्र–चित्रण।

इकाई–04

'एक राह आउ' के कथावस्तु, चरित्र–चित्रण, संवाद–योजना।

इकाई–05

'सोना के सीता' के कथावस्तु, 'कैकेयी के ताप' के कथा वस्तु।

इकाई–06

'चभक्का सिंह' के कथावस्तु, चरित्र–चित्रण।

अंक विभाजन

(क) आलोचनात्मक प्रश्न	(03x15=45)
(ख) व्याखत्मक प्रश्न	(02x10=20)
(ग) टिप्पणी	(03x5=15)
(घ) वस्तुनिष्ठ प्रशन	(10x01=10)
(ड़) आंतरिक मूल्यांकन	(10)
कुल	= 100 अंक

अभिस्तावित ग्रंथ

1. अंचरवा के लाज– डॉ0 सत्येन्द्र कुमार सिंह, प्रकाशक बिहार मगही अकादमी, बिहार सरकार, पटना।
2. कोसा– बाबूराम सिंह, लमगोड़ा।
3. मगही शकुंतला नाटक– रामाधार सिंह आधार।
4. एक राह आउ– कृष्ण कुमार भट्टा।
5. सोना के सीता– केशव प्रसाद वर्मा।
6. चभक्का सिंह– सतीश कुमार मिश्र।

जयमाया सिंह Comte Awanish Kumar Singh महेश कुमार राय

MJC-16

मगही–समालोचना / साहित्यालोचन

इकाई–01

'आलोचना' शब्द के व्युत्पत्ति आउ परिभाषा।

इकाई–02

आलोचना के प्रकार– भेद आउ उप भेद।

इकाई–03

आलोचना के प्रतिमान / निकष–भासा, बिम्ब, प्रतीक, भाव, शब्द शिल्प, शैली, चिंतन।

इकाई–04

मगही के प्रमुख आलोचक–1. आचार्य केसरी कुमार, 2. डॉ० राम प्रसाद सिंह, 3. डॉ० सत्येन्द्र कुमार सिंह, 4. डॉ० भरत सिंह, 5. डॉ० दिलीप कुमार, 6. डॉ० उमा शंकर सिंह, 7. डॉ० उमेश चंद्र मिश्र 'शिव', 8. राम विलास रजकण, 9. डॉ० राम नाथ शर्मा

अंक विभाजन

(क) आलोचनात्मक प्रश्न	(03x15=45)
(ख) लघु उत्तरीय प्रश्न	(03x05=15)
(ग) टिप्पणी	(04x5=20)
(घ) वस्तुनिष्ठ प्रश्न	(10x01=10)
(ड़) आंतरिक मूल्यांकन	(10)
	कुल = 100 अंक

सहायक ग्रंथ

1. आधुनिक मगही साहित्य– प्रो० कपिलदेव सिंह
2. साहित्य साधिका सम्पत्ति अर्याणी– डॉ० शोभा कुमारी
3. विचार आउ विवेचना–डॉ० उमेशचन्द्र मिश्र 'शिव'
4. मागही विधा विविधा–हरिशचन्द्र प्रियदर्शी
5. मगही साहित्य का इतिहास (आलोचना अंश) – डॉ० राम प्रसाद सिंह
6. मगही साहित्य का आलोचना इतिहास–डॉ० लक्ष्मण प्रसाद चंद
7. मगही काव्य की प्रवृत्तियाँ–डॉ० रामगोपाल पाण्डेय

जयनाथसिंह Comp ब्रजेश कुमार राय

MINOR (MIC-3) COURSE

Syllabus

मगही व्यंग्य साहित्य MIC-3

इकाई–01

अजब गजब आदमी

- ❖ कपरबथी
- ❖ दूजा भगवान
- ❖ जय मीडिया महाराज की
- ❖ किसिम किसिम के समाजसेवी

इकाई–02

अनुपम व्यंग संग्रह

- ❖ नाक कट गेल–डॉ० रामविलास 'रजकण'
- ❖ ओझा के चमत्कार–लवकुश प्रसाद सिंह
- ❖ रक्षाबंधन–अनुपम आनंद
- ❖ घड़ीघंट–प्रो० अवधेश कुमार सिन्हा

अथवा

कमंडल–प्रो० जयनाथ कवि

इकाई–03

- ❖ सच के सामना–राजेश मंझवेकर
- ❖ महिला मोंछ विधेयक–दयानंद प्रसाद
- ❖ परवचन–डॉ० सुदर्शन श्री निवास शंडिलल्य
- ❖ यज्ञ के फेर–अर्चना कुमारी

निर्देश

- ❖ सवाल के समय तीन घंटा होएत
- ❖ हरेक इकाई से सवाल जरूरी होएत
- ❖ कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
- ❖ दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ वस्तुनिष्ठ के दस सवाल में बंटल होएत

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आन्तरिक मूल्यांकन	(10x01=10)
	कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) अजब गजब अदमी (मगही व्यंग संग्रह)–प्रो० अलखदेव प्रसाद 'अंचल'
प्रकाशक–मगधांचल मगही मंच, पचरुखिया मोड़, औरंगाबाद

(2.) अनुपम व्यंग संग्रह–अनुपम आनंद
प्रकाशक–मगही साहित्य सम्मेलन, अछुआ, पटना

(3.) मगही पत्रिका:नवांक–7 (2012)

(4.) कमंडल–प्रो० जयनाथ कवि, मन्नीष प्रकाश, वाराणसी

जयनाथ सिंह ब्रजेश कुमार राय

MINOR (MIC-4) COURSE

Syllabus

मगही कथा साहित्य MIC-4

इकाई–01

आंठी (मगही कहानी संकलन)

- ❖ पगलेटवा के बियाह–हरीन्द्र विद्यार्थी
- ❖ भोली–सुधीर कुमार सिन्हा
- ❖ हिरामन काका–प्रो० सुखित वर्मा

इकाई–02

मगही समकालीन कहानी संकलन(कहानी संकलन)

- ❖ माल के अधिकारी–नरमदेश्वर कुमार शर्मा 'इंजोर'
- ❖ नमकहरामी–बैजू सिंह
- ❖ स्वाभिमान के उदय–लक्ष्मीचंद्र प्रियदर्शी
- ❖ ढ़ोल के पोल–सुमंत
- ❖ टभकइत फोड़ा–हर्ष देव प्रेमी
- ❖ रेहन–डॉ0 भरत सिंह

इकाई–03

एक गाही (कहानी संकलन)–संपादक आलोक भारती

- ❖ गंजापन के दर्द–डॉ0 सच्चिदानंद प्रसाद
- ❖ टीस–रजनी कान्त
- ❖ संघर्ष– वीणा भारती
- ❖ करीमन काका के बेटी–अनुपम आनंद
- ❖ कजरी–राम पारिख

निर्देश

- ❖ सवाल के समय तीन घंटा होएत
- ❖ हरेक इकाई से सवाल जरूरी होएत
- ❖ कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
- ❖ दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ वस्तुनिष्ठ के दस सवाल में बंटल होएत

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आंतरिक मूल्यांकन	(10x01=10)
	कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) आंठी (कहानी संकलन)–संपादक प्रो0 सुखित वर्मा
–मगही साहित्य सम्मेलन, अछुआ, पटना

(2.) मगही समकालीन कहानी (कहानी संकलन)–संपादक अभिमन्यु प्रसाद मौर्य
–मौर्य प्रकाशन रामलखन महतो रोड, पुराना जक्कनपुर, पटना

(3.) एक गाही (कहानी संकलन)–संपादक आलोक भारती
–मगही साहित्य सम्मेलन, अछुआ, पटना

जयनाथ सिंह ब्रजेश कुमार राय

MINOR (MIC-5) COURSE

Syllabus

आधुनिक मगही कविता MIC-5

इकाई–01

अनकठल (क्षणिका संग्रह)

- ❖ महेंद्र प्रसाद 'देहाती'
- ❖ डॉ0 वीर विजय कुमार सिंह 'बेसुथ'
- ❖ श्रवण कुमार 'मथुर'
- ❖ अछूत भानू

इकाई–02

तितकी (हाइकू संग्रह)

- ❖ राम प्रवेश 'रश्मि'
- ❖ सुखित वर्मा
- ❖ डॉ0 राम गोपाल वर्मा
- ❖ गौरी शंकर सिंह
- ❖ राजीव

इकाई–03

लोर (कविता संग्रह)

- ❖ गुलर त नांव हे–रजनी कान्त
- ❖ मन लोछिआएल–जयनाथ 'कवि'
- ❖ दुनिया उदास हे–उमेश प्रसाद 'उदय'
- ❖ भउजी के शासन–नन्द किशोर सिंह 'विद्याथी'
- ❖ दाल भात टटका–परमहंस कुमार 'सुभाकर'
- ❖ न जइहड परदेश–बृज किशोर सिंह

इकाई–04

अक्षर के ताप (कविता संग्रह)

- ❖ दिवाली
- ❖ नया साल
- ❖ साधु कउन
- ❖ परम्परा
- ❖ विधवा

निर्देश

- ❖ सवाल के समय तीन घंटा होएत
- ❖ हरेक इकाई से सवाल जरूरी होएत
- ❖ कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
- ❖ दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ वस्तुनिष्ठ के दस सवाल में बंटल होएत

जयनाथ सिंह 'कवि' प्रवेश कुमार राय

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आंतरिक मूल्यांकन	(10x01=10)

कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) अनकठल (क्षणिका संग्रह) – संपादक– अछूत भानु
–मगही साहित्य सम्मेलन, अछुआ, पटना

(2.) तितकी (हाइकू संकलन) – संपादक–राजीव
–मगही साहित्य सम्मेलन, अछुआ, पटना

(3.) लोर (कविता संग्रह) – संपादक–बृज किशोर सिंह
–मगही साहित्य सम्मेलन, अछुआ, पटना

(4.) अक्षरा के ताप (कविता संग्रह) – कवि–पवन तनय
–मगही साहित्य सम्मेलन, अछुआ, पटना

जयनाथ तिवारी

MINOR (MIC-6) COURSE

Syllabus

मगही के उपन्यास साहित्य MIC-6

इकाई–01

बराबर के तलहट्टी में (मगही उपन्यास)

- ❖ समकालीन प्रासंगिकता
- ❖ उपन्यास परम्परा के संदर्भ में
- ❖ समाजिक बोध

इकाई–02

क्रांति (मगही उपन्यास)

- ❖ उपन्यास कला आउ क्रांति
- ❖ नायक के चरित्र–चित्रण
- ❖ राजनीतिक समाजिक संदर्भ में क्रांति

इकाई–03

संवली (मगही उपन्यास)

- ❖ नायिका के चरित्र–चित्रण
- ❖ समकालीन प्रासंगिकता
- ❖ संवली उपन्यास में प्रेम तत्त्व

निर्देश

- ❖ सवाल के समय तीन घंटा होएत
- ❖ हरेक इकाई से सवाल जरूरी होएत
- ❖ कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
- ❖ दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ लघु उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ वस्तुनिष्ठ के दस सवाल में बंटल होएत

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आंतरिक मूल्यांकन	(10x01=10)
	कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) बराबर के तलहट्टी में – डॉ0 राम प्रसाद सिंह
–मगही अकादमी, मगही लोक तुतबाड़ी, गया

(2.) क्रांति–अलखदेव प्रसाद 'अचल'
–निशा ग्राफिक्स, पटना

(3.) संवली–शशिभूषण उपाध्याय 'मधुकर', पेंशन के बतासा– डॉ0 ओमप्रकाश जमुआर वातायन प्रकाशन, पटना
–काव्य साधना मंदिर, कोपा खुर्द, नौबतपुर पटना

जयनाथ सिंह ... ब्रजेश कुमार राय

MINOR (MIC-7) COURSE

Syllabus

मगही के उपन्यास साहित्य MIC-7

इकाई–01

पचमेवा

- ❖ साइकिल
- ❖ टेलिफोन
- ❖ चुल्हा

इकाई–02

खोईछा के चाउर

- ❖ माटी के दीया
- ❖ सिन्हारा
- ❖ कोल्हुआरी

इकाई–03

हम जूता ही

- ❖ कुर्सी
- ❖ मोंछ

अथवा

निबंध माला, संपादक मंडल – डॉ0 रामसिंहासन सिंह / डॉ0 भरत सिंह / डॉ0 उमाशंकर सिंह / डॉ0 ब्रजेश कुमार राय / डॉ0 सत्येन्द्र कुमार सिंह

निर्देश

- ❖ सवाल के समय तीन घंटा होएत
- ❖ हरेक इकाई से सवाल जरूरी होएत
- ❖ कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
- ❖ दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ लघु उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ वस्तुनिष्ठ के दस सवाल में बंटल होएत

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आंतरिक मूल्यांकन	(10x01=10)
	कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) पचमेवा – अछूत भानू
–मगही साहित्य सम्मेलन, अछुआ, पटना

(2.) खोंईछा के चाउर – घमंडी राम
–श्याम सुंदरी साहित्य कला धाम, बेनी बिगहा, बिक्रम, पटना

(3.) हम जुता ही – मनोज कुमार 'कमल'
–नव निर्माण, संस्थान, गया

जयनाथ सिंह ब्रजेश कुमार राय

MINOR (MIC-8) COURSE

Syllabus

मगही पत्रकारिता MIC-8

इकाई–01

- ❖ मगही पत्रिका : अतीत से वर्तमान तक

इकाई–02

- ❖ प्रकाशन अवधि के दृष्टि से मगही पत्रिका

इकाई–03

मगही के पत्रकार आउ संपादक

- ❖ केशव प्रसाद वर्मा
- ❖ राम पारिख
- ❖ प्रो0 अवधेश कुमार सिन्हा
- ❖ सुमन्त
- ❖ अछूत भानू
- ❖ पवन तनय
- ❖ अलखदेव प्रसाद 'अचल'
- ❖ रामगोपाल पाण्डेय
- ❖ धनंजय श्रोत्रिय
- ❖ सच्चिदानन्द प्रेमी

निर्देश

- ❖ सवाल के समय तीन घंटा होएत
- ❖ हरेक इकाई से सवाल जरूरी होएत
- ❖ कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
- ❖ दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ लघु उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ वस्तुनिष्ठ के दस सवाल में बंटल होएत

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आंतरिक मूल्यांकन	(10x01=10)
	कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) मगही पत्रकारिता उद्‌भव आउ विकास – डॉ0 दिलीप कुमार

(2.) पत्रकारिता के विविध संदर्भ – डॉ0 वंशीधर लाल

(3.) पत्रकारिता और साहित्य – क्षमा शर्मा

(4.) श्रव्य–दृश्य माध्यम लेखन – डॉ0 राजेन्द्र मिश्र

जयनाथ सिंह ब्रजेश कुमार राय

MINOR (MIC-9) COURSE

Syllabus

मगही के अनुवाद साहित्य MIC-9

इकाई–01

- ❖ बैजू मामा – मूल लेखक रामवृक्ष बेनीपुरी
  अनुवादक – डॉ0 सत्येन्द्र कुमार सिंह

इकाई–02

- ❖ गली मुहल्लों के कुछ खेल – मूल लेखक मूल्क राज आनंद
  अनुवादक – उदय शंकर शर्मा

इकाई–03

- ❖ बिरसा के कहानी – मूल लेखक महावीर प्रसाद सिंह यादव
  अनुवादक – डॉ0 दिलीप कुमार

इकाई–04

- ❖ समता के समर्थनक : अम्बेडकर – मूल लेखक बसंत मून
  अनुवादक – उदय कुमार भारती

इकाई–05

- ❖ सबका साथी सबका दोस्त – मूल लेखक उमाशंकर जोशी
  अनुवादक – घमंडी राम

निर्देश

- ❖ सवाल के समय तीन घंटा होएत
- ❖ हरेक इकाई से सवाल जरूरी होएत
- ❖ कुल छः सवाल में से तीन सवाल के जवाब जरूरी होएत
- ❖ दीर्घ उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ लघु उत्तरीय इया व्याख्यात्मक के तीन सवाल
- ❖ वस्तुनिष्ठ के दस सवाल में बंटल होएत

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आंतरिक मूल्यांकन	(10x01=10)
	कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) बैजू मामा – प्रकाशक नेशनल बुक ट्रस्ट
(2.) गली मुहल्लों के कुछ खेल – प्रकाशक नेशनल बुक ट्रस्ट
(3.) बिरसा के कहानी – प्रकाशक नेशनल बुक ट्रस्ट
(4.) समता के समर्थक – प्रकाशक नेशनल बुक ट्रस्ट
(5.) सबका साथी सबका दोस्त – प्रकाशक नेशनल बुक ट्रस्ट

जयनाथ सिंह Google Quicksearch ब्रजेश कुमार राय

MINOR (MIC-10) COURSE

Syllabus

मगही लोकगाथा MIC-10

इकाई–01

- ❖ लोक गाथा के उत्पत्ति, मगही लोक गाथा के बिसेसता, मगही लोकगाथा के वर्गीकरण।

इकाई–02

- ❖ ''राजा भरथरी' के ऐतिहासिकता आउ काल्पनिकता, पात्र–योजना।

इकाई–03

- ❖ 'लोरिकायन' के ऐतिहासिकता आउ काल्पनिकता, लोरिक – मंजरी के बिआह प्रसंग।

इकाई–04

- ❖ 'कुँअर विजयी' के राष्ट्रीयता, प्रेम– तत्त्व

अंक विभाजन

आलोचनात्मक सवाल	(03x15=45)
लघु उत्तरीय इया व्याख्यात्मक सवाल	(03x05=15)
टिप्पणी	(04x05=20)
वस्तुनिष्ठ सवाल	(10x01=10)
आंतरिक मूल्यांकन	(10x01=10)
	कुल अंक = 100 अंक

निर्धारित सहायक ग्रंथ

(1.) मगही साहित्य का इतिहास – डॉ0 सत्येन्द्र कुमार सिंह

(2.) लोकगाथा परिचय – आचार्य नलिन विलोचन शर्मा

(3.) मगही लोक गाथाओं का शास्त्रीय अध्ययन – डॉ0 इनामुल हक, जानकी प्रकाशन, पटना

(4.) मगही लोक महाकाव्यन के सौंदर्य शास्त्रीय अनुशीलन–डॉ0 कुमार इन्द्र देव

जयनाथ सिंह ब्रजेश कुमार राय

SYLLABUS

FOR

UNIVERSITIES OF BIHAR

DEPARTMENT OF BUDDHIST STUDIES

UNDERGRADUATE PROGRAMME
CHOICE BASED CREDIT SYSTEM (CBCS)

SYLLABUS FOR : B. A. (CBCS)
COURSE : B.A.(HONS) BUDDHIST STUDIES
(SEMESTER - III TO VIII)

18/9/23

18/09/23.

18/09/2023

Buddhist Studies

(A) Major Core Course

S. No.	Sem.	Type of Course	Name of the Course	Credit	Marks
1.	I	MJC-1	History of Buddhism in India (6th Century B.C. to 2nd Century A.D.)	06	100
2	II	MJC-2	History of Buddhist in India (3rd Century B.C. to 1000 Century A.D.)	06	100
3	III	MJC-3	Fundamentals of Buddhist Philosophy	05	100
4	III	MJC-4	Buddhist Literature	04	100
5	IV	MJC-5	Buddhist Culture and Education	05	100
6	IV	MJC-6	Buddhist Art and Architecture	05	100
7	IV	MJC-7	Buddhist Monuments	05	100
8	V	MJC-8	Buddhism in South East Asia	05	100
9	V	MJC-9	Buddhism in Himalayan Range	05	100
10	VI	MJC-10	Development of Buddhism in China	04	100
11	VI	MJC-11	Emergence of Buddhism in Modern India	05	100
12	VI	MJC-12	Buddhist Heritage	05	100
13	VII	MJC-13	Philosophy of Theravada Buddhism	05	100
14	VII	MJC-14	History of Buddhism in Burma & Vietnam (Champa)	05	100
15	VII	MJC-15	Revival of Buddhism in India	06	100
16	VIII	MJC-16	Dissertation	04	100
			Sub Total	**80**	

(B) Minor Courses to be offered by the Department for student of other Department of Humanities

S. No.	Sem.	Type of Course	Name of the Course	Credit	Marks
1	I	MIC-1	Buddhism in South East Asia	03	100
2	II	MIC-2	Philosophy of Theravada Philosophy	03	100
3	III	MIC-3	History of Mahayana Buddhism	03	100
4	IV	MIC-4	History of Buddhism in India (600 B.C. to 1300A.D.	03	100
5	V	MIC-5	History of Buddhism in South Asia	03	100
6	V	MIC-6	Basic of Buddhist Philosophy	03	100
7	VI	MIC-7	Buddhist Ethics	03	100
8	VI	MIC-8	History of Tibetan Buddhism	03	100
9	VII	MIC-9	Buddhist Scholar & Thinkers	04	100
10	VIII	MIC-10	History of Buddhism in Japan & Korea	04	100
			Sub Total	**32**	

(C) Basket for Multidisciplinary Courses (MDC)

S. No.	Sem.	Type of Course	Name of the Course	Credit	Marks
1	I	MDC-1	Social History of Ancient India	03	100
2	II	MDC-2	Cultural History of South East Asia (from Earliest to 1500 Cent. A. D.)	03	100
3	III	MDC-3	Indian Religion and Philosophy	03	100
			Sub Total	**09**	

SEMESTER - III MJC (3)

Lecture - 04 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

(A) Major Core Course
B. A. (Honours)
Buddhist Studies

MJC (3) - Fundamentals of Buddhist Philosophy **70 + 30 =100**

		Credits
1.	Four Noble Truths : Dukkha, Dukkhasamudaya, Dukkhanirodh, Dukkhanirodh Gamini Pratipda & Eightfold Path	01
2.	Four Sects of Buddhism : Vaibhasika, Sautrantika, Yogacara, Madhymika.	01
3.	Theory of Causation : Paticcasamuppada (Dependant Orgination) Asatkaryavada versus Satkaryavada	01
4.	Basic Principles of Buddhism : Three characteristics of things (dukha,anitya,anatma), Atheism, Avyakrta.	01
5.	Tutorial	01

Books for References :-

1. Central Philosophy of Buddhism – T.R. V. Murti
2. History of Indian Philosophy Vol – 1. S.N. Dasguptra.
3. Outlines of Indian Philosophy – M. Hiriyana.
4. Indian Buddhism - A. K. Warder, Motilal Banarasidas
5. History of Indian Buddhism - Akira Hirakawa, Motilal Banarsidass
6. A History of Buddhist Philosophy - D. J. Kalupahana, Motilal Banarsidass
7. The Buddhist Philosophy of Universal Flux - Satkari Mookerjee,Motilal Banarsidass
8. A Critical Survey of Indian Philosophy - C. D. Sharma , Motilal Banarsidass
9. बौद्ध दर्शन – राहुल सांकृत्यायन
10. बौद्ध दर्शन मींमासा – बलदेव उपाध्याय, चौखंभा प्रकाशन
11. बौद्ध धर्म दर्शन – आचार्य नरेन्द्रदेव, मोतीलाल बनारसीदास
12. बौद्ध न्याय – त्सेबात्सकी, मोतीलाल बनारसीदास
13. भारतीय दर्शन – नन्दकिशोर देवराज, उ. प्र. हिंदी संस्थान, लखनऊ
14. भारतीय ज्ञानमीमांसा – नीलिमा सिन्हा, मोतीलाल बनारसीदास
15. बौद्ध दर्शन के विविध आयाम – आभा रानी, जानकी प्रकाशन

SEMESTER - III MJC - (4)

Lecture - 03 Credits
Tutorial - 01 Credits
(Total - 04 Credits)

(A) Major Core Course
B. A. (Honours)
Buddhist Studies

MJC - (4) Buddhist Literature **70 + 30 =100**

		Credits
1.	Origin and Home of Pali. General Idea of Tripitaka Literature	01
2.	Milindapanho : Introduction of Lakhhanapanho., Digha Nikaya : (a) Mahaparinibbana Sutta (b) Ambattha –Sutta. Dhammapada : Cittavagga, Buddhavagga, Appamadavagga.	01
3.	Origin and Development of Buddhist Sanskrit Literature	01
5.	Tutorial	01

Books for References :

1. A History of Pali Literature, Vol. –I, II-B. C. Law.
2. A History of Indian Literature Vol.-I, M. Winternitz
3. Pali Sahitya Ka Ithas (in Hindi) Bharat Singh Upadhyay.
4. Milindapanho – (ed) R.D. Wadekar, Bombay University, Publication, 1953
5. Questions of King Milinda – T.W. Rhys Davids (S.B.E. Series Vol, 85, 86).
6. Digha Nikaya – Ed Bhikhhu J. Kashyap, Nalanda edition, 1958.
7. A Grammar of Buddhist Hybrid Sanskrit – Franklin Edgarton
8. Nepales Buddhist Literature R.L. Mitra.
9. Jatakamala (ed) H. Kern, Boston, 1891.
10. Divyavadana – (ed) Cowell and Neil, 1986.
11. Dhammapada – Bhikkhu Dharma rakshita.
12. Digha Nikaya – T.W. Rhys Davids (S.B.E. Series)
13. Dhammapada – Max Muller (S.B. E. Series),
14. Dhammapada – Dr. S. Radhakrishnan.
15. पटिच्चसमुप्पाद – आभा रानी, जानकी प्रकाषन
16. धम्मपद – विनोबा भावे
17. पालि त्रिपिटक में प्राप्त मगध के प्रसिद्ध ग्राम – डॉ. विश्वजीत कुमार, प्राच्य प्रकाषन, पटना

SEMESTER - III (MIC-3)

Lecture - 03 Credits
(Total - 03 Credits)

(B) Minor Course

Buddhist Studies

MIC - (3) History of Mahayana Buddhism **70 + 30 =100**

Credits

1. Origin of Mahayana Philosophy ; Difference between Hinayana and Mahayana. 01
2. Philosophy of Major Schools of Mahayana : 01

(i) Yogacara (Vijnanvada) (ii) Sunyavada (Madhyamika), Theory of Bodhisattva.

3. Life of Acharya's – Nagarjuna, Dharmakirti, Asvaghosa, Atisa Dipankara and Santo Deva, Concept of Trikaya, Buddhist Cosmology according to Abhidharma. 01

Books for Reference :

1. N. Dutta, Mahayana Buddhism.
2. W. M. Mac Govern , An Introduction of Mahayana Buddhism.
3. Yuvraj Krishan, The Doctrine in Karma.
4. Hardayal, Bodhisattva Doctrine in Buddhist Literature.
5. Randy Kloetzli, Buddhist Cosmology.
6. Chai-Shin-Yu, Early Buddhism and Christianity.
7. N. Dutta, Aspects of Mahayana Buddhism and its Relation of Hinayana.
8. Narendra Deva, Bauddha Dharma Darsana (Hindi) .
9. T. R. V. Murti , Central Philosophy of Buddhism
10. Fumimaro Ubtanbe, Philosophy and its Development In the Nikayas and Abhidamma
11. Dr. Radhakrishnan, Indian Philosophy.
12. C.D. Sharma. Indian Philosophy
13. बलदेव उपाध्याय – बौद्ध धर्म मीमांसा

SEMESTER - III (MDC-3)

Lecture - 03 Credits
(Total - 03 Credits)

(C) Multidisciplinary Course-3

Buddhist Studies

(MDC-3) Indian Religion and Philosophy **70 + 30 =100**

	Credits
1. Vedic and Later Vedic Religion , Saivism and Vaisnavism	01
2. Buddhism and Jainism	01
3. Sankhya Philosophy	01

Books for References :-

1. Barth, A. - The Religion of India ,1989
2. Thakur, Upendra - Studies in Jainism and Buddhism in Mithila, 1964
3. Gupta, S.N. Das - A History of Indian Philosophy, 1922-56
4. Law, B.C. - Buddhistic Studies, 1931
5. Mishra, Umesh - History of Indian Philosophy, 1966
6. Lal, Basant Kumar - Introduction to India Philosophy, 2007
7. Chaterjee. S.C. - Essential of Hinduism
8. Hopkins - Religion of India
9. Maxmuller - Six Systems of Indian Philosophy
10. Dutta, D.M. - History of Indian Philosophy
11. Davids, Mrs. Rhy - The Buddhism
12. Keith, A. B. - Religion and Philosophy of the Vedas and Upanisads.
13. Upadhaya Baldeva - Bhagavat Dharma
14. Know, S. - Religion of India

SEMESTER - IV (MJC-5)

Lecture - 04 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(5) Buddhist Culture and Education **70 + 30 =100**

		Credit
1.	Buddhist Education - Training of a monk, Subject matter and academic life.	01
2.	Monasteries as seat of learning.	01
3.	Buddhist ceremonies – Varsavasa, Upasatha Pavarna, Kathina etc.	01
4.	Monastic Indian Universities – Nalanda , Vallabhi, Vikramasila.	01
5.	Tutorial	01

Books for Reference :-

1. Buddhist Monks and Monasteries of India – S. Dutta.
2. 2500 Years of Buddhism – (ed) P.V. Bapat.
3. Education in Ancient of India, A.S. Altekar.
4. History and Culture of Indian People – Bhartiya Vidya Bhawn Series.
5. Indian Teachers in Buddhist Universities – P.N. Bose.
6. Early Buddhist Monachism N. Dutta.
7. Buddhaghosa – B.C. Law.
8. Indian Pandits in the Land of Snow – S.C. Das.
9. Buddhism in India and Abroad – A.C. Banerjee.
10. Studies in Buddhist Culture of India. – L.M. Johsi
11. Baudha Dharma Ke Vikas Ka Itihas (Hindi) G.C. Pande.
12. Atisa Dipankara and Tibet -Alka Chattopadhyay.
13. Ancient Indian Education – R.K. Mukherjee.
14. A Cultural History of India – A.L. Basham.
15. S.B.Sohni Felicitation Volume – Article – Indian Monks in China – U. Thakur.
16. Some Aspects of Ancient Indian History and Culture - U. Thakur.

SEMESTER - IV (MJC-6)

Lecture - 04 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

(A) Major Core Course
B. A. (Honours)
Buddhist Studies

MJC-(6) Buddhist Art and Architecture — **70 + 30 =100 Credits**

1	Origin and Development of Stupa Architecture. Stupa of Sanchi, Bharhut, Nagarjunakonda, Amaravati.	01
2.	Chaitya Hall - General Features of a Chaitya Hall, Chaitya Hall of Bedsa, Karle, Bhaja.	01
3.	Monasteries – General Feature of a Monastery – Nalanda, Ajanta Jaulian & Taxila	01
4.	Asokan Pillars, Buddha Image of Mathura School., Buddha Image of Gandhara School.	01
5.	Tutorial	01

Books for Reference :-

1. Buddhist Mounments – D. Mitra.
2. Booklets of Archaeological Survey of India on Nalanda, Ajanta, Sanchi, Nagarjunakonda etc.
3. Indian Architecture (Buddhist and Hindu periods) Vol-I, Percy Brown.
4. Bhartiya Kala (in Hindi) Vasudeo Sharan Agrawal.
5. Indian Arts – V.S. Agrawal.
6. Prachin Bhartiya Pratima - Vigyan Evam Murtikala. – Braj Bhushan Srivastava,
7. The Image of the Buddha – (ed) D.L. Snellgrove.
8. Sarnath V.S. Agrawal.
9. A Guide to Karle Caves – Dauglas Barreil.
10. Bharhut – B.M. Burua.
11. Ajanta (in Hindi) Ajaya Mitra Sastri.
12. Studies in Early Buddhist Architecture of India - H.Sarkar.
13. A Guide to Sanchi – J. Marshall.
14. Arts and Architecture of India – Banjamin Rowland
15. A.S.I. Annual Reports and Memoirs.
16. Texila 3 Vols. J. Marshall.
17. Ajanta – G. Yazdani.
18. Stupa Architecture in India – S. Pant.
19. The Gods of Northern Buddhism – A Getty.

SEMESTER - IV (MJC-7)

Lecture - 04 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(7) Buddhist Monuments **70 + 30 =100**

Credits

1.	A brief survey of Sanchi, Amaravati, Ajanta Paintings	01
2.	Bodh Gaya Temple, Sujata Stupa	01
3.	Vaishali Stupa & Kesariya Mahastupa	01
4.	Barabar Caves, Kurkihara, Rajgrih, Odantpuri & Telhara	01
5.	Tutorial	01

Books for Reference :-

1. Buddhist Mounment – D. Mitra.
2. Booklets of Archaeological Survey of India on Nalanda, Ajanta, Sanchi, Nagarjunakonda etc.
3. Indian Architecture (Buddhist and Hindu periods) Vol-I, Percy Brown.
4. Bhartiya Kala (in Hindi) Vasudeo Sharan Agrawal.
5. Indian Arts – V.S. Agrawal.
6. Prachin Bhartiya Pratima - Vigyan Evam Murtikala. – Braj Bhushan Srivastava,
7. The Image of the Buddha – (ed) D.L. Smellgrove.
8. Sarnath- V.S. Agrawal.
9. A guide to Karle Caves – Dauglas Barreil.
10. Bharhut – B.M. Burua.
11. Ajanta (in Hindi) Ajaya Mitra Sastri.
12. Studies in Early Buddhist Architecture of India - H.Sarkar.

SEMESTER - IV (MIC-4)

Lecture - 03 Credits
(Total - 03 Credits)

(B) Minor Course

Buddhist Studies

MIC - (4) History of Buddhism in India **70 + 30 =100**

(600 B. C. to 1300 A. D.)

		Credits
1.	Life of the Buddha, Buddhist Councils in India	01
2.	Asoka and the Expansion of Buddhism	01
3.	Buddhist Places :- Kapilavastu, Bodhgaya, Vaishali; Sravasti, Kusinagar, Nalanda, Vikramsila	01

Books for References :-

1. Barua, O.K. - Bodhgaya Temple its History
2. Bapat, P.V. - 2500 Years 0 Buddhism
   Indo-Burmese Art
   History of Vaishali Itinaraies of
   Chinese Pilgrims
   political, Social & Economic History
   of Eastern India
3. Mahajan, V.D. - Political History of Ancient India
4. Majumdar, R.c.(ed.)- Classical Age
5. उपाध्याय, भरत सिंह,पालि साहित्य का इतिहास

SEMESTER-V (MJC-8)

Lecture - 04 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(8) Buddhism in South East Asia **70 +30 =100**

Credits

1.	Thailand - Origin, Development and Patrons of Buddhism	01
2.	Cambodia - Origin, Development and Patrons of Buddhism	01
3.	Vietnam - Origin, Development and Patrons of Buddhism	01
4.	Burma - Early History of Buddhism in Burma, Theravada Buddhism in Burma, King Anirudha.	01
5.	Tutorial	01

Books for Reference :-

1. Buddhism in Thailand - Kasalaya
2. History of Buddhism in Siam - H. R. Prince Dharmkriti
3. History of South East Asia - D. G. E. Hall
4. Buddhism in South East Asia - Singhal
5. Buddhism in Laos - Thao Nhouy Abhay
6. Theravada Buddhism in Burma - N. Ray
7. Buddhism in South East Asia - K Krishnamurty
8. Buddhism in East Asia - S. Dutta

SEMESTER - V (MJC-9)

Lecture - 0 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(9) Buddhism in Himalayan Range **70 + 30 =100**

Credits

1.	Origin and Development of Buddhism in Ladakh	01
2.	Buddhism in Kashmir.	01
3.	Buddhism in Bhutan	01
4.	Buddhism in Sikkim, Himachal Pradesh and Uttarakhand	01
5.	Tutorial	01

Books for Reference :-

1. Cultural History of Tibet - H. Richardson
2. Tibet Past and Present - C. A. Bell
3. Buddhist Himalyas - D. L. Snellgrvoema
4. Buddhism of Central Asia - Rahul Sankrityayana
5. Ladakh - A. Cunningham
6. History of Buddhism in Kasmir - Sarla Khosla
7. Himalayan Buddhism Past and Present - D. C. Ahir
8. Glimpses of Bhutan - P. N. Sharma
9. A History of Budhism in Nepal - Rajendra Ram
10. Buddhist Monastries in the Western Himalayas.
11. तिब्बत में बौद्ध धर्म – राहुल सांकृत्यायन

SEMESTER - V (MIC-5)

Lecture - 03 Credits
(Total - 03 Credits)

(B) Minor Course
Buddhist Studies

MIC - (5) History of Buddhism in South Asia **70 + 30 =100**

		Credits
1.	Introduction of Buddhism : Nepal and Bhutan	01
2.	Buddhist Monuments of Afghanistan.	01
3.	Buddhist Literature in Sri Lanka	01

Books for Reference :

1. K.L. Hazra, History of Theravada Buddhism in South East Asia, with Special
2. Reference to India and Ceylon
3. W. Rahula , History of Buddhism in Ceylon.
4. H. Richardson, Cultural History of Tibet.
5. Dr. A. Tulku, Mahatma Chongkhapa (Sumatrikirti) JiKaVyaktitvaEvamKritiva (Hindi)
6. H. Goetz, Kashmir and the Indian Himalayas
7. D.L. Snellgnvoerna, Buddhist Himalayas.
8. A. A. Austien, Innermost Asia.
9. Rahula Sankrityayana, History of Central Asia.
10. A. Cunningham, Ladakh.
11. S.C. Das,.Indian Panditas in the Land of Snow.
12. P..N. Sharma, Glimpses of Bhutan

SEMESTER - V (MIC-6)

Lecture - 03 Credits
(Total - 03 Credits)

(B) Minor Course

Buddhist Studies

MIC - (6) Basic of Buddhist Philosophy **70 + 30 =100**

1.	Life of the Buddha, Political Condition of India during 6th cent.	01
2	Different between Hinyana and Mahayana, Buddhist Council (I,II,III,)	01
3	Buddhist Educational Institutions (Nalanda, Vikramsila)	01

Books for Reference :

G. C. Pandey, Origin of Buddhism

E. J. Thomas, Life of Buddha
W. Roikhil, The Life of Buddha and the Early History of his Order
Manual Kern, of Indian Buddhism
N. Dutta, Early Monastic Buddhism2 Vol.
Edward Conze, Buddhism
Sukumar Dutt, Buddhist Monks and Monasteries in India
B.M. Barua, Asoka and his Inscriptions
S.R. Goyal , A History of Indian Buddhism
P.V. Bapat, 2,500 Years of Buddhism- (Ed.)
S. Chhattopadhyaya, Bimbisara to Ashoka
B.N. Puri, India Under the Kushanas
D.K. Barua, Viharas in Ancient India
L. M. Joshi, Studies in the Buddhistic Culture of India
N. Dutta, Aspects of Mahayana Buddhism and its Relation to Hinayana

SEMESTER - VI (MJC-10)

Lecture - 03 Credits
Tutorial - 01 Credits
(Total - 04 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(10) Development of Buddhism in China	**70 + 30 =100 Credits**
1. China - Introduction & Development of Buddhism	01
2. Buddhist Sects	01
3. Patrons of Buddhism.	01
4. Tutorial	01

Books for Reference :-

1. Japanese Buddhism : A Critical History - Yoshiro Tamura
2. A History of Japanese Religion - Kazuo Kasahara
3. Chinese Buddhism - Joseph Fdkins.
4. Buddhism in East Asia - Sukumar Duta.
5. Buddhism in Chinese History - Wright.
6. India and China - P.C. Bagchi.
7. China - A short Cultural History - C.P. Fitzeraland.
8. Chinese Buddhism - A.C. Banerjee.
9. Japanese Buddhism - C. Eliot
10. A History of Japan upto 1334 - G.B. Sansom.
11. History of Japanese Religion - Masaharu Anesaki.
12. Foundations of Jauanese Buddhism. 2 Vols - Alicis and Diagan Mutsunaga.
13. Japan : A Short Cultural History - G.B. Sansom.
14. Japanese Buddhism- D.T. Singhal.
15. A History of Chinese Buddhism - Chon-Hsiang Kuang.

SEMESTER - VI (MJC-11)

Lecture - 04 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

(A) Major Core Course
B. A. (Honours)
Buddhist Studies

MJC-(11)- Emergence of Buddhism in Modern India **70 + 30 =100**

Credits

1. **Revival of Buddhism in India :** Contribution of various personalities - 01
   Bhikshu Jagdish Kasyap, Bhadant Anand Kaushalyayana, Mahapandita Rahul Sankrtyayana, Anagarika Dharmapala, The 14th Dalai Lama, Contribution of Institutions (Maha Bodhi Society of India Bengal Buddhist Association)
2. **Dr. B. R. Ambedkar and his Philosophy of religion** 01
3. **Salient Features of Modern-Indian Buddhism :** 01
   Religion for Social Change, Agitation against Social Injustice, Call of Conversion, New Inclusions in Buddhism, Freedom, Justice, Liberty, Equality, Fraternity, Education, Agitation, Organization.
4. **Buddhism as Depicted in Dr. Ambedkar : Buddha of His Dhamma** 01
   i. The Buddha, The Dhama (Dharma, Adharma, Sadharma) The Samgha.
   ii. Path of Purity(Morality:Kusala Karma, Akusala Karma)
   Path of Righteousness (Noble Path), Path of Perfection (Virtue)
   iii. Law of Karma as Instrument of Morality.
5. Tutorial 01

Books for Reference :-

1. Babasaheb, Dr. B. R. Ambedkar, The Buddha & His Dharma, Samyak Prakasan, New Delhi
2. Ahir, D. C., Revival of Buddhism in India, Buddhist World Press, New Delhi
3. Ahir, D. C., The Pioneers of Buddhist Revival in India, Sri Satguru Publication, New Delhi
4. Das, Bhagwan, Revival of Buddhism in India and the Role of Dr. B. R. Ambedkar, Dalit Today , Prakashan, Lucknow.
5. Hazara, Kanhai Lal, The Rise and Decline of Buddhism in India, Munsiram Manoharlall, New Delhi
6. Sangharaksita, Ambedkar and Buddhism, Windhorse Publication, Glasgo
7. Vishnu Shankar - Karma & Rebirth
8. Naik, C. D. Thoughts and Philosophy of B. R. Ambedkar, Swarup & Sons, New Delhi.

SEMESTER - VI (MJC-12)

Lecture - 04 Credits
Tutorial - 01 Credits
(Total - 05 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(12) - Buddhist Heritage Site **70 + 30 =100**

		Credits
(A)	**Excursion of the Buddhist Heritage Site** (Nalanda, Vaishali, Bodhgaya, Sarnath, Kusinagar, Lumbani)	03
(B)	**Report**	01
(C)	**Tutorial**	01

Books for reference :-

1. Buddhist Monuments - D. Mitra.
2. Archaeological Survey Booklets on Historical sites.
3. Ashoka and His inscriptions - B.M. Barua.
4. Ashoka's Inscription - R.K. Mookerjee.
5. Select Ashokan Epigraphs - Sachidananda Bhattacharya.
6. Select Inscriptions bearing on Indian History and Civilization - D.C. Sircar.

SEMESTER - VI (MIC-7)

Lecture - 03 Credits
(Total - 03 Credits)

(B) Minor Course

Buddhist Studies

MIC - (7) Buddhist Ethics **70 + 30 =100**

		Credits
1.	Buddhist Concept of Ahimsa with special reference to Jain, Gita and Gandhian Views of Ahimsa	01
2.	Buddhist concepts of *Kamma* and *Sila* with reference to Gita's concept of Niskam karma (disinterested action).	01
3.	Buddhist views on terrorism, wealth and poverty, Equality, discrimination	01

Books for Reference :

1. W. Frankena, Ethics, Englewood Cliffs, NJ: 1963.
2. J.L. Mackie, Ethics: Inventing Right and Wrong, Harmondsworth, Middlesex: 1977.
3. Hardayal, The Bodhisattva Doctrine in Buddhist Sanskrit Literature, reprint, Delhi: Motilal Banarsidass, 1999.
4. J. Nuttall,, Moral Questions: An Introduction to Ethics, London, Macmilan: 1993.
5. J.S. Fishin, Justice, Equal Opportunity, and the Family, New Haven:Yale University Press: 1983.
6. R.A. Duff, Trials and Punishment, Cambridge: Cambridge University Press: 1986.
7. Vishnu Shankar- Karma and Rebirth in Hinduism and Buddhism – Prachya prakashan, Patna
7. Raghvan Aiyer, Moral and Political Thought of Mahatma Gandhi,Madras: 1978.

SEMESTER - VI (MIC-8)

Lecture - 03 Credits
(Total - 03 Credits)

(B) Minor Course

Buddhist Studies

MIC - (8) History of Tibetan Buddhism **70 + 30 =100**

Credits

1.	Introduction to Buddhism in Tibet, Contribution of Shantarakshita and Atisa Dipankara	01
2.	Padmasambhwa and establishment of Monasteries. Tibetan Masters: Milerpa, Atisa Dipankar Srijnana and Tsong-kha-pa	01
3.	Tibetan Buddhist School: Nyingma, Kagyu, Sakya, Gelug. The Institution of Dalai Lama	01

Books for Reference :

1. Alex McKay, History of Tibet (3 vols), London 2001
2. Penpa Dorje, Analytic Study of Samye Debate, Sarnath 2005
3. P.V. Bapat, 2500 Years of Buddhism, Delhi, Publication Division, ministry of Information and Broadcasting,1997
4. Obermiller (TR.), History of Buddhism in India and Tibet, Sri Satguru Publication, Delhi,1986
5. Waddell, The Buddhism of Tibet or Lamaism, Delhi 1978
6. R. N. Rahul, Tibet Books an Indian Pandita
7. J. Hopkins, The Tantrika Distinction : An Introduction to Tibetan Buddhism
8. Alka Chattopadhyaya, Atisa and Tibet

SEMESTER - VII (MJC-13)

Lecture - 04 Credits
Tutorial – 01 Credits
(Total - 05 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(13) - Philosophy of Theravada Buddhism **70 + 30 =100**

		Credits
1.	Philosophical Background of Upanishadic thought Contemporary thinkers of Buddha.	01
2.	Four Noble Truth,- Dukha, Causes of Suffering, Pratityasamutapada.	01
3.	Concept of Nibbana, Eight Fold Path, Concept of Sila, Samadhi and Prajna Parmita	01
4.	Concept of Arhat No- Soul Theory, Kamma and Rebirth.	01
5.	Tutorial	01

Books for Reference -

1. History of Pre- Buddhistic India Philosophy - B.M. Barua
2. The No-Soul Doctrine in Theravada - W.Donl and Mitchell
3. The Teachings of the Compassionate Buddha - E.A.Burti
4. Buddhist Faith and Saudden Enlightenment - Saung Bae Parte
5. Buddhist Philosophy in India and Ceylon - A.B. Keith
6. Bauddha Darsana Mimansa (Hindi) - Baldev Upadhyaya
7. Indian Logic in the Earth Schools - H.N. Ranade
8. Bauddha Dharma Mimansa (Hindi) - B.N. Singh
9. Indian Philosophy - Dr.Radhakrishnan
10. Indian Philosophy - C.D. Sharma
11. Karma and Rebirth in Hinduism and Buddhism - Vishnu Shankar
12. History of Indian Philosophy - Umesh Mishra

SEMESTER - VII (MJC-14)

Lecture - 04 Credits
Tutorial – 01 Credits
(Total - 05 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(14) - History of Buddhism in Burma and Vietnam (Champa) 70 + 30 =100

		Credits
1.	Early History of Buddhism in Burma	01
2.	Theravada Buddhism in Burma, Buddhist Art in Burma.	01
3.	Pagan Buddhism - King Anirudha, Buddhist Literature in Burma.	01
4.	Origin and Development of Buddhism in Vietnam	01
5.	Tutorial	01

Books for Reference :

1. N. Ray, Theravada Buddhism in Burma
2. K.L. Hazra, History of Theravada Buddhism in South East Asia, with Special Reference to India and Ceylon
3. W. Rahula , History of Buddhism in Ceylon.
4. Mebel Bode, Pali literature in Burma.
5. N.R. Ray, Indo Burmese Art.
6. Mabel Bode, Pali Literature of Ceylon.
7. E. W Adikaram, Early History of Buddhism in Ceylon.
8. K. Krishnamurty, Buddhism in South East Asia.

SEMESTER - VII (MJC-15)

Lecture - 05 Credits
Tutorial – 01 Credits
(Total - 05 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(15) - Revival of Buddhism in India **70 + 30 =100**

Credits

1.	Socio-Religious Movement in India during the eighteenth and nineteenth centuries in India, Movement of the Untouchables in the twentieth century.	01
2.	Early European Scholars in Buddhism and their contribution in Translation of Texts	01
3.	Revival of Buddhism in India with special reference To Angarika Dharmpala and Rahul Sankrityayan B.R. Ambedkar& His Biography,	01
4.	Neo Buddhist Movement in India	01
5.	Contribution of Burmese Monks for Revival of Buddhism in India	01
6.	Tutorial	01

Book for Reference -

1. A.C. Ahir, Buddhism in Modern India, Nagpur: 1972.
2. Trevor Ling, Buddhist Revival in India, London: 1980.
3. H. Dumolin, & J.C. Maraldo (eds.), Buddhism in the Modern World, New York: 1966.
4. D. Swearer, Buddhism in Transition, Philadelphia: 1970.
5. W.N. Kuber, B.R. Ambedkar, New Delhi: 1978.
6. B.R. Ambedkar, The Buddha and His Dhamma, 2nd edition, Bombay: 1974.

SEMESTER - VII (MIC-9)

Lecture - 03 Credits
Tutorial – 01 Credits
(Total - 04 Credits)

)

(B) Minor Course

Buddhist Studies

MIC - (9) Buddhist Scholar and Thinkers **70 + 30 =100**

		Credits
1.	Buddhaghosa, Asvaghosa	01
2.	Nagarjuna ,Vasubandhu	01
3.	Kumarjiva, Bodhi Dharma	01
4.	Tutorial	01

Books for Reference :-

1. Buddhist Monks and Monasteries of India – S. Putta.
2. 2500 years of Buddhism – (ed) P.V. Bapat.
3. Education in Ancient of India, A.S. Altekar.
4. History and Culture of Indian People – Bhartiya Vidya Bhawan Series.
5. Indian Teachers in Buddhist Universities – P.N. Bose.
6. Early Buddhist Monachism - N. Dutta.
7. Buddhaghosa – B.C. Law.
8. Indian Pandits in the Land of Snow – S.C. Das.
9. Buddhism in India and Abroad – A.C. Banerjee.
10. Studies in Buddhist Culture of India. – L.M. Johsi
11. Baudha Dharma Ke Vikas Ka Itihas (Hindi) G.C. Pande.
12. Atisa Dipankara and Tibet Alka Chattopadhayay.
13. Ancient Indian Education – R.K. Mukherjee.
14. A Cultural History of India – A.L. Basham.
15. S.B.Sohni Felicitation Volume – Article – Indian Monks in China – U. Thakur.
16. Some Aspects of Ancient Indian History and culture - U. Thakur.

SEMESTER - VIII (MJC-16)

Lecture - 04 Credits
(Total - 04 Credits)

(A) Major Core Course

B. A. (Honours)

Buddhist Studies

MJC-(16) - Dissertation **70 + 30 =100**

Credits

Periodic Presentation	:	30% (Internal Assessment)	01
Project Report	:	40%	02
Viva- Voce	:	30%	01

SEMESTER - VIII (MIC-10)

Lecture - 03 Credits
Tutorial – 01 Credits
(Total - 05 Credits)

(B) Minor Course

Buddhist Studies

MIC - (10) History of Buddhism in Japan & Korea **70 + 30 =100**

	Credits
1. Japan - Introduction & Development of Buddhism	01
2. Buddhist Sects, Contemporary Buddhism, Patrons of Buddhism.	01
3. Korea - Introduction & Development of Buddhism Buddhist Sects,	01
4. Tutorial	01

Books for Reference :

1 P.C. Bagchi, Indian and China.
2 Kenneth Chen, Buddhism in China.
3 A.C. Banerjee, Studies in Chinese Buddhism.
4 Jhonston, Buddhist China.
5 J. PripMollar, Chinese Buddhist Monasteries.
6. D.T. Suzuki, Essays on Zen Buddhism.
7. M. Anesaki, History of Japanese Religions.
8. K. Krishnamurthy, Buddhism in Japan

Scope of Buddhist Studies / Our Objective

Buddhist studies is an interdisciplinary field. Buddhist Studies provides ample scope and opportunities for the student showing interest in this field and seeking inspiration from the philosophy of the Buddha, which is still relevant even in the 21st century. It has a wider scope and approach at the master's and Doctoral levels in the field of research and academics. Unlike other education system, the main aim of Buddhist Studies is to provide equal opportunities for student to achieve their all-round physical, mental and moral development by giving equal importance to both the theoretical and practical teaching of the Buddha. Buddhism, as we all know, contains teaching of the Buddha, which is more or less like a science of body and mind. Buddhist Studies is one subject that can mitigate global crisis arising from chronic mental stress and illness by making students awareness. that is governed by Nature. The Goal of Buddhist Studies is to bring everyone on the common platform help achieve the highest form of human satisfaction through knowledge, meditation self introspection.

The aim and objectives of Buddhist Studies is to enlighten students and help them attain wisdom. This education system provides an all round personality development including physical, mental moral and intellectual development.

Department of Buddhist Studies

Undergraduate Course (B.A)
(CBSC)

Question Patron of Undergraduate Course

Part – A

- **Ten Multiple Choice Questions**

each question carry of two marks =10 x2 =20 Marks

Part – B

- Short Answer Type Question

Answer of four questions out of Six questions
each questions carrying five marks = **04 x 5 = 20 Marks**

Part- C

- **Long Answer Type**

Three question to be answers out of Five Questions each questions carrying ten marks = **03 x 10 = 30 Marks**