NEHRU GRAM BHARATI

(DEEMED TO BE UNIVERSITY)

Programme Outcomes, Programme Specific Outcomes,
Course Outcomes and its Attainment

Index

B.A.[Ancient History]	
Programme Outcome (POs)	
PO1	The students will be able to understand the importance of our glorious past.
PO2	The students will be able to understand nature and scope of history.
PO3	The students will be able to understand the meaning of nationalism and the respect to word great national personality.
PO4	The students will be able to understand the political history of ancient India and civilization of ancient world.
Programme Specific Outcome (PSOs)	
PSO1	The students will be able to understand background of our religion, customs, institutions, administration and so on.
PSO2	The students will be able to understand the social, political, religious and economic conditions of the ancient people.
PSO3	The students will be able to analyze relationship between the past and present in lively presented in the history.
PSO4	The students will be able to develop practical skills helpful in the study and understanding of historical events.

Course Outcome- B.A.[Ancient History]

Semester-I

Paper- 1 st (Political History of Ancient India) From-6 th Century B.C to 184 B.C	CO1: Students will be able to explain the Sources and Approaches of Political History of Ancient India. CO2: To acquire the knowledge of Pre-Mauryan Period and Mauryan Period. CO3: Students will be able to explain the Rise of Magadha empire (From Bimbisara to Nandas). CO4: Students will be able to explain the Achievement of Chandra Gupt Maurya. CO5: Students will be able to explain the decline of the Maurya.
Paper – II (Civilization of Ancient World)	CO1: Students will be able to explain the Greek Civilization. CO2: Students will be able to explain the Greek Civilization (Religion, Philosophy & Literature). CO3: Students will be able to explain the Roman Political Ideas. CO4: Students will be able to explain the Christianity in Rome. CO5: To acquire the knowledge of Greek Civilization, Roman Civilization and Spread of Buddhism and Islam.

Semester-II

Paper : 1st (Political History of Ancient India) (From-185 B.C to 319 A.D)	CO1: Students will be able to explain the Sources and Approaches. CO2: Students will be able to explain the Political Condition on the eve of the rise of sungas. CO3: Students will be able to explain the Origin and early History of Satvahana CO4: Students will be able to explain the Sakas and Yavanas. CO5: To acquire the knowledge of Post Mauryan Period, Satvahanas, Sakas and Yavanas and Kushanas.
Paper 2nd (Civilization of Ancient World)	CO1: Students will be able to explain the expansion of Indian Culture in South East Asia. CO2: Students will be able to explain the Impact of Modern Art & Indian Social Institutions.

	CO3: Students will be able to explain the Chinese Civilization-Han Period-I. CO4: Students will be able to explain the Chinese Civilization-Han Period-II. CO5: To acquire the knowledge about South East asia and Chinese Civilization of Han and Tang Period.

Semester-III

Paper 1st (Political History of Ancient India) (From 319 A.D to 467 A.D)	CO1: Students will be able to explain the Literary (i) Indigenous (ii) Foreign Account. CO2: Students will be able to explain the Early Guptas. CO3: Students will be able to explain the Samudragupta's campaigns of Aryavarta, Dakshinapatha and of Forntier states, etc. CO4: Students will be able to explain the Chandragupta-II. CO5: Students will be able to explain the Kumargupta I & Skandgupta achievements.
Paper- 2 nd (Art and Architecture)	CO1: Students will be able to explain the Harappan Architecture. CO2: Students will be able to explain the Mauryan Architecture. CO3: Students will be able to explain the Stupa Architecture-Form, Technique and Symbology with Special reference to Bharahut, Sandri and Amravati. CO4: Students will be able to explain the Satvahan Architecture, Gandhara & Mathura Art. CO5: Students will be able to explain the Elora, Ajanta & Bagha Painting.

Semester-IV

Paper- 1 st (Political History of Ancient India) (From 467 A.D to 650 A.D)	CO1: Students will be able to explain the Archaeological (i) Inscriptions (ii) Numismatics (iii)Architecture & resources. CO2: Students will be able to explain the Late Gupta Period. CO3: Students will be able to explain the Gupta Period as a "Golden era". CO4: Students will be able to explain the Aulikaras and Maitrakas. CO5: Students will be able to explain the History of Pushybhuti Dynasty with Special Reference to Harsha.
Paper-II Gupta Art & Architecture	CO1: Acquire the knowledge about Locus in Traditional Nagar and Dravida Style their Distinctive Features & Form and Techniques in Temples of Orissa & Pali art. CO2: will acquire the knowledge of Salient features of Art and Architecture of early Medieval Northern India such as Gurjara-Pratihar Art , Chandela Art & Solanki Art (Mount Abu) CO3: will acquire the knowledge of about the salient features of Art and Architecture of South India i.e., Chalukya-Badami, Aihole, Pattadakel & Rastrakutas. CO4: Will acquire he knowledge about the Form and Technique of Pallav-Monoliths (Ratha) and Structural Temple- of Chola Temple. CO5: Students will be able to explain the Pallav-Monoliths (Ratha) and Structural Temple-Form and Technique.

Semester-V

Paper –I (Political History of Ancient India) (From 650	CO1: Students will be able to explain the Archaeological (i) Inscriptions (ii) Numismatics (iii) Architecture. CO2: Students will be able to explain the Political History of Gurjara Pratihar & f Rastrakuta. CO3: Students will be able to explain the Political History of Pal Dynasty,

A.D to 1206 A.D)	Tripartite Struggle. CO4: Students will be able to explain the Origin of Rajputas. CO5: Students will be able to explain the Foreign Invasions.
Paper-II (Early Culture and Civilization of India-I)	CO1: Students will be able to explain the early culture and civilization of India-I. CO2: Students will be able to explain the Palaeolithic Cultures. CO3: Students will be able to explain the Mesolithic Cultures. CO4: Students will be able to explain the Neolithic Cultures. CO5: Students will be able to explain the Harappan Civilization.

Semester-VI

Paper- I (Political History of India) (From 650 A.D to 1206 A.D)	CO1: Will acquire the knowledge about the Political History of Chalukyas of Badami and Kalyani. CO2: Will acquire the knowledge of Arab Invasion & Pandya Dynasity. CO3: Will acquire knowledge of Political History, Administration, Relation with Contemporary Powers, Cultural Achievements of Chola Dynasity. CO4: Students will be able to explain the Chalukya-Pallav Relation. CO5: Students will be able to explain the Chola Dynasty.
Paper- II (Early Cultures and Civilization of India-II)	CO1: Will acquire the knowledge 1 st Urbanization, 2 nd Urbanization and Antiquity of Iron of Early Cultures and Civilization of India. CO2: Students will be able to explain the Important Wars: O.C.P, P.G.W, Black and Red were, N.B.P.W. CO3: Students will be able to explain the Chalcolithic Cultures. CO4: Students will be able to explain the Indo-Roman Contact. CO5: Students will be able to explain the Taxila, Atranjikhera, Singaverapur, Jhusi, Brahmgiri, Arikamedu Hastinapur.
Paper- 3 rd (Indian Culture-II)	CO1: will acquire knowledge of Education and Educational Institutions, Centres of Learning Taxila, Nalanda, Vikramashila of ancient Indian culture, CO2: Will be able to diferentiate between Saivism, Vaishnavism, Jainism, Buddhism. CO3: Will acquire knowledge of Sankaracharya, Bhakti Movement. CO4: Will acquire knowledge of Interaction Between Islam and Indian Society. CO5: Will acquire knowledge and interpret about the Social and Religious Movement in Nineteenth Century, Indian Nationalism and the Ideology of Ahimnsa and Nehru's Socialism & Secularism

M.A.[Ancient History]	
Programme Outcome (POs)	
PO1	The students acquire in depth knowledge in the field of Ancient History, Culture & Archaeology which make them sensitive enough to solve the issues related with mankind.
PO2	The postgraduates will be acquainted with the social, economical, historical, geographical, political, ideological and philosophical tradition and thinking of their respective subjects.
PO3	The program also empowers the post graduates to appear for various competitive examinations or choose the any post graduate or research programme of their choice.

PO4	The students will be ingnted enough through the knowledge of the special P.G. programmed to think and act over for the solution of the various issues prevailed in the human life to make world better than ever.
PO5	Students get knowledge of various research methods can realize importance of research to find solutions of the specific issue.
Programme Specific Outcome (PSOs)	
PSO1	The understand background of our religions, customs, institution, administration and so on.
PSO2	The study of history to impart moral education.
PSO3	Analyze relationship between past and present is lively presented in the history.
PSO4	Understand the present exiting social, political, religions and economic condition of the people.

Course Outcome- M.A.[Ancient History]
Semester-I

After completion of the Course the student will be able to:

Paper I: Aspects of Ancient Indian Culture (Political, Social and Economic Institutions)	CO1: acquire introductory knowledge about ancient Indian Culture. CO2: will be aware of Political ideas and Institutions of Ancient Indian Culture. CO3: will be aware of Social & Economic Institutions of Ancient Indian Culture. CO4: Students will be able to explain the Social Institutions (Taxilla, Nalanda, Vikramshila and Position of women-their abilities and disabilities. CO5: Students will be able to explain the Economic Institutions (Varta, Agrigulture, Cattle rearing and Trade and Commerce.
Paper II: Political History of Ancient India (From 6th Century B.C. to C. 184 B.C.)	CO1: will be aware of various Literary, Epigraphy and Numismatics sources of Political History. CO2: Will acquire knowledge of Beginnings of Historical Age such as Role of Buddhism and Jainism in the formation of kingship and state ; Mahajanpadas; Political formation and second urbanization and Monarchical and Republican state of sixth century B.C. CO3: Will be aware of Political of Ancient India of Mauryan and Pre-Mauryan period. CO4: Students will be able to explain the Origin of Maurya Period. CO5: Students will be able to explain the Maurayan Period and decline of the Mauryas.
Paper III: Indian Palaeography	CO1: Will be aware of Origin and antiquity of Indian Palaeography writing . CO2: Will have the knowledge of various phases of Development of Brahmi Script and Features of Mauryan Brahmi, Sunga Brahmi, Satvahana Brahmi , Saka Brahmi, Kushana Phase Brahmi. CO3: Will have knowledge of evolution of Brahmi from Kutila to Nagari Script and beginnings of the Southern alphabets. CO4: Students will be able to explain the Saka Brahmi and Kushana Phase Brahmi. CO5: Students will be able to explain the Gupta phase and evolution of

	Brahmi from Kutila to Nagari Script.
Elective Paper IV (a) : Archaeological Theories (Archaeology Group)	CO1: will be aware of Ethnographical and Archaeological Perspective of Archaeological Theories. CO2: Will have sound knowledge of basic units of Archaeological Inquiry about Artifacts, Sites, Archaeological context, Classification & nomenclature of archaeological culture & artifacts and Interface between science and archaeology CO3: Will be aware of Time scales: geological, anthropological and archaeological, Geomorphology and archaeology and the succession of climate phases during the pleistocene and Holocene. CO4: will have knowledge about the Pleistocene Stratigraphy Chronology; Glaciers & glacial formations and River Valleys, terraces and sections. CO5: Students will be able to explain the Glaciers & glacial formations and river valleys.
Elective Paper IV(b) : Elements of Indian Archaeology: Prehistory and historical archaeology (Non Archaeology Group)	CO1: will understand Ethnographical and Archaeological Perspective of Elements of Indian Archaeology. CO2: Will be aware of various methods and techniques of Indian Archaeology. CO3: will be aware of various Palaeolithic, Mesolithic and Neolithic Cultures of India. CO4: Students will be able to explain the Mesolithic Cultures of India. CO5: Students will be able to explain the Neolithic Cultures of India.
Paper V: Tourism Concepts & Principles	CO1: will be aware of basics of Tourism Concepts & Principles. CO2: will be aware of Types and forms of Tourism. CO3: will acquire knowledge about the Tourist transport and International Tourist Organizations. CO4: Students will be able to explain the Tourist transportation (Air, Surface & Rail Transportion etc. CO5: Students will be able to explain the International Tourism Organizations (WTO & IATA).
Paper VI: Indian culture-I (Not for Anc. History Students)	CO1: will be aware of various Sources of study, Definition and characteristics and Factors of Indian Culture. CO2: Will have knowledge of Harappan Civilization, Pre Vedic & Vedic Religion and Indian Paintings related to Indian Culture. CO3: Students will be able to explain the Pre Vedic & Vedic Religion. CO4: Students will be able to explain the Hindu Sanskaras & Purusartha. CO5: Students will be able to explain the different types of Indian Paintings.

Semester-II

After completion of the Course the student will be able to:

Paper I: Aspects of Ancient Indian Culture (Religion, Philosophy,Literature and Art)	CO1: will have knowledge of sources, approaches and early History of Religion. CO2: will be able to Later Religions (Buddhism, Jainism & Vaisnavism. CO3: Students will be able to explain the Upanisadic, Bhagavad-Gita, Vedanta (Shankara & Ramanuja). CO4: Students will be able to explain the Literature : Kautilya's Arthashastra, Milindapanho and Parisistaparvan and work of Kalidasa. CO5: Students will be able to explain the Art & Paintings : Maurya,

	Sunga Ashokan, Kushana, Gupta art, Ajanta and Bagh Paintings.
Paper II: Political History of Ancient India (From C. 185 B.C. to 319 A.D.)	CO1: will be aware of various Literary, Epigraphy and Numismatics sources of Political History of ancient India. CO2: Will acquire in-depth knowledge of Post Mauryan Period. CO3: Students will be able to explain the Origin and early history of Satvahanas. CO4: Students will be able to explain the Early History of Sakas of western India, Achievements of Rudradaman I CO5: Students will be able to explain the Origin and history of early Kushanas.
Paper III: Indian Numismatics	CO1: Will be able to attain in depth knowledge of origin and antiquity of Coinage in Ancient India. CO2: Will have the knowledge of local ancient coins, Indo-Greek Coins, Kushanas and Guptas Coinage in Ancient India. CO3: Students will be able to explain the Indo-Greek, Satvahana & Saka-Pallava coins. CO4: Students will be able to explain the Kushana Coinage. CO5: Students will be able to explain the Gupta coinage (Gold, Silver & Copper coin).
ELECTIVE Paper IV: (a) Archaeological Methods and Techniques (Archaeology Group)	CO1: will be aware of Methods of Exploration: Traditional. CO2: Students will be able to explain the Methods of exploration: Scientific. CO3: Students will be able to explain the Methods & techniques of excavation. CO4: Students will be able to explain the Stratigraphy & Stratification. CO5: Students will be able to explain the Chronology, preservations & reporting.
Elective Paper IV: (b) Elements of Indian Archaeology: Protohistory and Historical Archaeology (Non Archaeology Group)	CO1: will have in-depth knowledge of Harappan Chalcolithic Cultures. CO2: will have in-depth knowledge of Non Harappan Chalcolithic Cultures. CO3: Students will be able to explain the Antiquity of iron. CO4: Students will be able to explain the Iron Age Cultures of North India. CO5: Students will be able to explain the Iron Age Cultures of South India.
Paper V: Travel Agency Management	CO1: will be aware of basic Travel Formalities, CO2: Will gain knowledge of the procedures of approval of Travel Agents and Tour Operators. CO3: Will be aware of functions of Travel Agency and Itinerary Preparation. CO4: Will be aware of functions of Tour Operator, Market research and Package formulation CO5: Will have knowledge of Public and private Sector Travel Agency business.
Paper VI: Indian Culture -2 (Main Features of Ancient Indian Society and state) (Not for Ancient History Students)	CO1: will be aware of Literary and Archaeological sources of Indian Culture. CO2: Will be able to understand the Varnashrama and Caste System in Ancient India. CO3: Will have knowledge of Position of women in Ancient India, Characteristics of Ancient Indian Kingship and Guild, Trade and commerce of Kushanas & Guptas period of Ancient Indian Society.

	CO4: Students will be able to explain the Characteristics of Ancient Indian Kingship and social changes in India (C 500-1200 A.D.). CO5: Students will be able to explain the Guild, Trade and commerce (Kushanas & Guptas).

Semester-III

After completion of the Course the student will be able to:

Paper I: Political History of Ancient India (From A.D. 319 to 550 A.D.)	CO1: : Students will be able to explain the Source of Literary indigenous and Archaeological inscriptions. CO2: will have knowledge of Political History Early Guptas, Samudragupta, Chandragupta II and History of Late Gupta Period of Ancient India. CO3: Students will be able to explain the Samudragupta. CO4: Students will be able to explain the Chandragupta II. CO5: Students will be able to explain the History of Late Gupta Period.
Paper II: Historiography and Theories of History	CO1: will be aware of Trends and approaches to the modern historiography of nineteenth and twentieth centuries. CO2: Will acquire in-depth knowledge of nature of Historical methodology and historical explanation. CO3: Students will be able to explain the Historical methodology: Status of historical knowledge. CO4: Students will be able to explain the Historiography and philosophy, history of Christian and German. CO5: Students will be able to explain the Positivistic Historiography and philosophy of history: Karl Popper.
Paper III: Social History of India (From Earliest Times to Circa 6th Century AD)	CO1: Will be able to attain in depth knowledge ancient Indian society and Ancient Social Institutions. CO2: will have knowledge about the trends and approaches to the study of valley civilization, Vedic, Mauryan, Post Mauryan & Gupta period. CO3: Students will be able to explain the Historical Study of Social Institutions. CO4: Students will be able to explain the Study of other Social Institutions (Position of Women) & Educational Institutions: Taxilla, Kashi, Valabhi and Curriculum. CO5: Students will be able to explain the Study of Labours and outcastes.
ELECTIVE Paper IV: (a) Economic History of India (From earliest time of 6th centuryA.D.)	CO1: Students will be able to explain the Literary sources: Indigenous-Dharmashashtra and epigraphic. CO2: Students will be able to explain the Historical study of economy (Indus Valley civilization, Vedic, Mauryan, Post-Mauryan and Gupta Period). CO3: Students will be able to explain the Study of history of Agriculture. CO4: Students will be able to explain the Study of history of Trade and Commerce: International trade and Corporate Activities. CO5: Students will be able to explain the Corporate activities, Currency system.
Elective Paper IV: (b) Pre-History : Palaeolithic Cultures (With Special	CO1: will have knowledge Introduction of Prehistory : definition, scope, association with allied disciplines. CO2: Will be aware of Outlines of Prehistoric culture of world. CO3: Students will be able to explain the Lower Palaeolithic Culture of

Reference to India)	India. CO4: Students will be able to explain the Middle Paleolithic Culture of India. CO5: Students will be able to explain the Upper Palaeolithic Culture & Art of India.
Elective Paper IV: (c) Indian Protohistory	CO1: will gain in-depth knowledge of of Characteristic features, Origin and extent and Decline, Important Harappan Sites and Chalcolithic Cultures. CO2: Students will be able to explain the Harappan Civilization. CO3: Students will be able to explain the Legacy of Harappan civilization and Important Harappan Sites. CO4: Students will be able to explain the Chalcolithic Cultures of Western-Central India and Deccan. CO5: Students will be able to explain the Chalcolithic Cultures of Northern India.
Elective Paper IV: (d) Ancient Indian Architecture-I	CO1: will be aware of Historiography, Approaches and Sources, Harrapan and Mauryan Architecture. CO2: Students will be able to explain the Technical texts-Manasara, Samaranganasutradhara, Aparajitaprichha and Patronage art- traditions. CO3: Students will be able to explain the Harappan architecture. CO4: Students will be able to explain the Mauryan Architecture. CO5: Students will be able to explain the A brief survey of rock cut architecture.
Elective Paper IV: (e) Ancient Indian Art and Aesthetics-I	CO1: will be have knowledge of Various Dynastic Art, Buddha Iconography and Jain Iconography. CO2: Students will be able to explain the Indian & Western Thinkers. CO3: Students will be able to explain the Dynastic Art: Mauryan, Sunga, Satavahana, Kushana & Gupta. CO4: Students will be able to explain the Buddha Iconography. CO5: Students will be able to explain the Jain Iconography.
Elective Paper IV: (f) Ancient Indian Religious and Philosophical Thoughts-I	CO1: will acquiant knowledge about the Foundation of Indian religion, various Sectarian Proliferation, Yajna ritual and Philosophical thoughts of Gita, Sankhya and Upnishads. CO2: Students will be able to explain the Foundation of Indian religion: Harappan and early Vedic. CO3: Students will be able to explain the Sectarian Proliferation – Sun worship, Shaivism, Vaishnavism. CO4: Students will be able to explain the Yajna ritual-Agnistoma, Vajapeya, Rajasuya and Asvamedha Educational rites. CO5: Students will be able to explain the Philosophical thoughts-Upanisadic philosophy, Gita, Sankhya.
Paper IV: (g) Ancient Indian Religious and Philosophical Thoughts-II	CO1: Students will be able to explain the Sources: Literary and archaeological, Puranic Dharma. CO2: Students will be able to explain the Religious trends: Saktism, Tantrism. CO3: Students will be able to explain the Religious System: Saiva schools and sects, Vaisnava school and sects. CO4: Students will be able to explain the Minor religious Systems: Sun cult, Skandkartikeya cults, Ganes cult. CO5: Students will be able to explain the Philosophical Thoughts: Sankara's Vedanta, Ramanjua's Visistadvait.

Paper V: Tourist Resources of India	CO1: will have knowledge of Tourism Resources on the Natural sites like and other popular and pilgrimage sites and handi crafts of India. CO2: Students will be able to explain the Popular Tourist Resources: Delhi, Agra, Jaipur (Golden Triangle) etc. CO3: Students will be able to explain the Pilgrimage Destinations, Char Dham Yatra also Buddhist Circuit Bodhgaya,Sarnath, Kushinagar. CO4: Students will be able to explain the Handi Crafts of India.
Paper VI: Indian culture-3 (Ancient Indian Religion and Philosophy) (Not for Ancient History Students)	CO1: will have an Introductory knowledge of Saivism, Vaisnvism Sects, Jainism, Buddhism, Shankaracharya and Bhakti Movement. CO2: Students will be able to explain the Vaisnvism Sects -Their general history and characteristic, doctrines. CO3: Students will be able to explain the Antiquity of Jainism, Life and Teachings of Parsvanatha and Mahavira. CO4: Students will be able to explain the Buddhism-Origin and development. CO5: Students will be able to explain the Six schools of Indian Philosophyand about Sankaracharya.

Semester-IV

After completion of the Course the student will be able to:

(1) CORE COURSE Paper I: Political History of Ancient India (From A.D. 550 to 1200 A.D.)	CO1: Students will be able to explain the Political History of Ancient India (From A.D. 550 to 1200 A.D.), Sources: Literary & Archaeological. CO2: will have in-depth knowledge of History of Post-Gupta Period. CO3: Will have knowledge of History of Pushyabhauti dynasty. CO4: Students will be able to explain the Chalukyas of Badami. CO5: Students will be able to explain the Political History of Gurjar-Pratihar and Palas, Rashtrakutas, Chandellas, Ghazanavi's invasion and Turk invasion.
Paper II: Social History of India (From Circa 7th Century A.D. to 12th Century A.D.)	CO1: Will be aware of the trends and approaches to study of ancient Indian society Transitional Phase from Ancient to Early Medieval Period & Socio-economic changes during the early medieval period CO2: Will acquire in-depth knowledge Hitorical Study of Vertical classification of Society , Institutions, Position of Women, and position of Education in the Society CO3: Students will be able to explain the Historical Study of Society (vertical). CO4: Students will be able to explain the Historical Study of Social Institutions. CO5: Students will be able to explain the Historical Study of position of women and Historical Study of Education.
Paper III: Oriental Tradition of Historiography With Special Reference to India	CO1: Will be able to attain in depth knowledge of History of Vedic and Puranic Traditions and Epics, Buddhist & Jain Traditions and Charit Literature. CO2: will have knowledge about the Kashmir chronicles and Modern historians of ancient India. CO3: Students will be able to explain the Buddhist tradition of history with special to Dipvans. CO4: Students will be able to explain the Historical tradition of Charit literature.

	CO5: Students will be able to explain the Kashmir chronicles: Rajtarangini.
ELECTIVE Paper IV: (a) Economic History of India (From Circa 7th centuryA.D.12th Century A.D.)	CO1: will gain in-depth knowledge about the Sources, Trends and Approaches: Indigenous: Religious, Dharmashashrta and Secular, Inscriptions and numismatic sources. CO2: Students will be able to explain the History of Agriculture. CO3: Students will be able to explain the Trade and Commerce (Internal and External). CO4: Students will be able to explain the Industries and Corporate Life, Industries and Guilds. CO5: Students will be able to explain the History of Revenue System, Settlement and Debts: Taxation and Reenue System, Settlement & Debts and Money Lending.
Elective Paper IV: (b) Paper IV: Pre-History : Mesolithic and Neolithic Cultures (With Special Reference to India)	CO1: will have knowledge about the Palaeo-environment of Holocene, Mesolithic and Neolithic cultures Cultures in India. CO2: Will be aware of Mesolithic and Neolithic tool technology and typology and Rock-Art. CO3: Students will be able to explain the Neolithic Cultures in India: Definition and general features. CO4: Students will be able to explain the Regional Study of Neolithic cultures. CO5: Students will be able to explain the Rock-Art.
Elective Paper IV: (c) Indian Iron Age/Historical Archaeology of India	CO1: will gain in-depth knowledge of General Features of Iron Age/Early Historical Archaeology of India Emergence of Iron in India and Origin and Antiquity of Iron. CO2: Will be aware of various Early Iron Age Cultures, Northern Black Polished Ware Culture and Sites. CO3: Students will be able to explain the Northern Black Polished Ware Culture. CO4: Will have knowledge about Second Urbanization, Indo-Roman Contacts and various Megalithic Culture of ancient India. CO5: Students will be able to explain the Megalithic Culture of northern Vindhyas, Sites: Magha, Kotia, Kakoria, Khajuri.
Elective Paper IV: (d) Ancient Indian, Art and Aesthetics-II	CO1: will be aware of Historiography, Approaches and Sources of various Dynastic Art, Hindu Iconography, Terracotta Traditions and Painting traditions of Ancient India. CO2: Students will be able to explain the Dynastic Art: Chandela, Rashtrakuta, Orissa, Pallava &Chola. CO3: Students will be able to explain the Hindu Iconography: Vishnu, Shiva, Sakta & Surya. CO4: Students will be able to explain the Terracotta Traditions: Indus, Mauryan and Sunga, Kushana and Gupta & Earty Medieval Regional traditions. CO5: Students will be able to explain the Painting Traditions: Forms and Techniques, Prehistoric Paintings, Classical Painting tradition, Ajanta and Bagh.
Elective Paper IV: (e) Ancient Indian Architecture-II	CO1: will be have knowledge of Origin and growth of temple architecture-Socio-religious and technical factors and Principles of Vastu Vidya. CO2: Will be aware of the distinctive features, forms and techniques of Gupta Temples, Orissa Temples and Khajuraho Temples, Chalukyan

	temples, Pallava-Monoliths (Ratha) and Chola temples. CO3: Students will be able to explain the Temples of Orissa. CO4: Students will be able to explain the Temples of Khajuraho. CO5: Students will be able to explain the Pallava-Monoliths (Ratha) and structural temple, Chola temple & Early medieval Monoliths and Rock cut temples- Elora, Elephanta.
Elective Paper IV: (f) Ancient Indian Religious and Philosophical Thoughts-III	CO1: will be aware of the Sociological perspective of Dharma: Great traditions and little traditions. CO2: Students will be able to explain the Geographic context of Dharma-sacred and profane, Indian religious systems: Later Vedic, Sangama. CO3: Students will be able to explain the Jainism, Buddhism, Ajivika. CO4: Students will be able to explain the Smarta traditions-Tirtha, Dana, Sraddha. CO5: Students will be able to explain the Janistic Syadvad, Buddhist Sunyavad.
Paper IV: (g) Paper IV: Ancient Indian Religious and Philosophical Thoughts-IV	CO1: will acquiant knowledge about the Sociological Approach to Dharma, main trends in the study of Indian religion and philosophy. CO2: Students will be able to explain the Ascetic tradition, Bhakti-Alvar and Naynar. CO3: Students will be able to explain the Buddhism-Tantric phase and decline. CO4: Students will be able to explain the Jainism-schools and sects, Minor cults-Hanumat cult, Nath cult, Yogini cult. CO5: Students will be able to explain the Philosophical thoughts-Yoga, Lokayata.
Paper V: Tourism Policy and Planning	CO1: will be aware of methods of Formulating Tourism policy Role of government. CO2: Will have knowledge about National Action plan on Tourism 1992. CO3: Students will be able to explain the Conceptual Meaning of Tourism planning. CO4: Students will be able to explain the Warsaw Convention, Open sky policy.
Paper VI: Indian culture (Not for Ancient History Students)	CO1: will have an knowledge of Social and Religious Movement in Nineteenth Century. CO2: Students will be able to explain the Freedom Movement: Ideas and Ethos. CO3: Students will be able to explain the Gandhi: The Ideology of Ahimsa, its practical application. CO4: Students will be able to explain the Pt. J.N. Nehru: Ideals of Socialism, secularism. CO5: Students will be able to explain the Tagore's Humanism & Subhash Chandra Bose.

B.A. [Education]	
Programme Outcome (POs)	
PO1	Students develop an understanding of Concepts, theoretical frameworks, perspectives and methods of inquiry.
PO2	Students are trained to think rationally and critically.
PO3	Students learn to appreciate diversity and develop cultural sensitivity.

PO4	Recognition of self as an individual with strengths and weaknesses.
PO5	Students imbibe human values and become responsible citizens.
PO6	Eligible for admissions to post-graduate programs for further studies.

Course Outcome - B.A. [Education]

Semester-I

After completion of the Course, the student will:

Paper- 1 Introduction of Education	CO1: Be able to understand the meaning, nature, scope and aims of Education. CO2: Be able to explain the factors of education and their interrelationship. CO3: Be aware of different agencies of education and acquainted with the concept of child-criticism and play-way in education. CO4: Be able to understand the Skills Development. CO5:Be acquainted with the Employability.
Paper – II History of Indian Education	CO1: Be acquainted with the salient features of education in India during ancient and medieval period. CO2: Be acquainted with the development of education in British India. CO3: Beware of significant points of selected education commissions and National policy of Education in Independent India. CO4: Be acquainted with the entrepreneurship. CO5: Be acquainted with the the details history of Indian Education system from ancient to modern.

Semester-II

After completion of the Course, the student will:

Paper- 1 Psychological Foundation of Education	CO1: Be able to understand the meaning of psychology and will b acquainted with its different aspects. CO2: Have knowledge of the patterns of different aspects of human development and will be able to relate this with that of education. CO3: Be acquainted with the cognitive approach of development and will understand the process and factors of cognition. CO4: Be acquainted with the learning concept and theories. CO5: Be able to understand the meaning of Concept, types and theories of intelligence
Paper – II Philosophical Foundation of Education	CO1: Understand the meaning and relation of philosophy and education. CO2: Understand the Importance of Philosophy of education. CO3: Be acquainted with the Indian & western schools of Philosophy and their impact on education. CO4: Have developed understanding of philosophy for development of humanity. CO5: Understand the meaning and relation western schools of philosophy.

Semester-III

After completion of the Course, the student will:

Paper- 1 Sociological Foundation of Education	CO1: Understand the nature, scope and relation between Sociology and Education. CO2: Able to explain the concept of Social Groups and Socialization process. CO3: Be able to understand the concept of social changes and social interaction in education. CO4: Be aware of social communication in education. CO5: Be aware of Social stratification
Paper – II Guidance and	CO1: Have knowledge about the concept, types of guidance. CO2: Be able to find out the basic data necessary for guidance.

Counselling	CO3: Be able to find out the basic concept of Counselling. CO4: Be able to find out the Techniques of Counselling. CO5: Be able to find out the differentiate Guidance and Counselling.

Semester-IV

After completion of the Course, the student will:

Paper- 1 Educational Measurement & Evaluation	CO1: Understand the concepts of measurement and evaluation in education. CO2: Be acquainted with the process of evaluation and different types of measuring instruments. CO3: Understand the concept of validity and reliability and their importance in educational measurement. CO4: Be acquainted with the principles of test construction. CO5: Be acquainted with the Skills Development.
Paper – II Emerging Trends in Education	CO1: Be aware of emerging trends in education such as Environmental Education, Distance Education, Population education, Value education and Teacher education. CO2: Be aware of Environmental Education Protection- nature and strategy. CO3: Be acquainted with the Value Education and its needs. CO4: Be acquainted with the Role of the difference agencies in Teacher Education NCTE, NCERT. CO5 : Be acquainted with the Open school and Open University aims.

Semester-V

After completion of the Course, the student will:

Paper- 1 Educational Organization Management and Planning	CO1: Understand the concept of an ideal organization in educational institutions. CO2: Have knowledge about the essential functions of educational management. CO3: Able to understand different aspects of planning. CO4: Able to understand Features of School Medical Services. CO5: Able to understand Elements of School Plant.
Paper – II Technology in Education	CO1: Understand the use of educational technology (ICT and e-learning) in education and for communication. CO2: Be acquainted with the system approach. CO3: Be acquainted with the instructional techniques and different models of teaching. CO4: Be acquainted with Basic concept of Hardware and Software. CO5: Understand the use of Computer Network and Internet.
Paper – III Statistics in Education	CO1: Understand the need and importance of statistics in education. CO2: Be able to calculate frequency distribution, mean, median, mode and variability-standard deviation. CO3: Be able to represent Data-Histogram and Polygon graphically. CO4: Able to understand the concept of calculation of derived Z, T and Standard scores. CO5: Able to understand the concept of Normal Probability Curve and Correlation.

Semester-VI

After completion of the Course, the student will:

Paper- 1 Curriculum Studies	CO1: Able to understand the concept, nature, types and approaches of curriculum. CO2: Understand the relation among curriculum, pedagogy and assessment. CO3: Understand about curriculum development and national curriculum framework 2005. CO4: Acquainted with content selection theories and able to understand

	evaluation & reforms of curriculum. CO5: Acquainted with Bloom's taxonomy
Paper – II Inclusive Education	CO1: Be able to understand meaning of inclusion and exclusion, types and causes and how to bring about inclusion in different spheres. CO2: Be able to understand meaning of Disability and Handicap. CO3: : Able to understand the concept Inclusive school CO4: Understand about the Obstacles/barriers in Inclusion. CO5: Acquainted with the Role of school and society in creating a barrier free environment.
Paper – III Experimental Education and Viva-voce	CO1: Be able to practically perform the experiments on Free Association, Span of Apprehension, Mirror Drawing and measurement of mental fatigue and explain them orally. CO2: Able to test Administrative Tests and express them orally. CO3: Able to known differentitate between Experiments and Test. CO4: Be able to understand Intelligence test. CO5: Be able to understand word list method.

M.A.[Education]	
Programme Outcome (POs)	
PO1	Equipped with in-depth and extensive theoretical and practical knowledge and understanding of their disciplines to meet career needs.
PO2	Equipped with an inter disciplinary perspective.
PO3	Able to create new knowledge and opportunities for learning through the process of research and inquiry.
PO4	Able to use a basic range of established techniques to analyse information and propose solutions.
PO5	Able to communicate accurately and reliably to a range of audiences.
PO6	Able to exercise personal responsibility and decision-making and able to work in a group.
PO7	Able to identify their own learning needs and to select an appropriate program of further study.
PO8	Possess behaviour consistent with academic integrity and social responsibility.
PO9	Be Confident and skilful to take up responsibilities and challenges and able to meet targets and deadlines.

Course Outcome- M.A.[Education]

Semester-I

Course Outcome (COs): After completion of the course, the student :	
Paper-I Philosophical Bases of Education: Western Philosophies	CO1: Will be aware of Meaning, Nature and Scope of Education and Philosophy. CO2: Will have knowledge about Western Philosophies. CO3: Will be aware of Great Western Educators and concepts of Democracy and Education & Education and Freedom. CO4: Will have knowledge about the Major schools and Modern Concepts of Philosophy. CO5: Will have knowledge about relationship between Education & Philosophy.
Paper-II Sociological	CO1: Will be aware of the Meaning and scope of Sociology of Education. CO2: Will understand the Role of Education in context to Culture.

Bases of Education	CO3: Will understand the need of Sociological perspective in Education. CO4: Able to differentiate Social Change and Social Stratification. CO5: Will be able to understand the education of SC/ST Women and Rural population.
Paper-III Methodology of Educational Research	CO1: Will be aware and understand the meaning and purpose of research, research problem and its various phase's and different methods. CO2: Able to differentiate Qualitative and Quantitative research. CO3: Able to select and formulate a research problem, formulate a hypothesis. CO4: Will be able to understand population and sampling and its types. CO5: Aware of the various methods of educational research.
Paper-IV (A) History of Indian Education	CO1: Will be able to understand the aims, curriculum, methods of instruction, teacher-taught relations and educational institutions of Vedic Buddhism and medieval period Muslim Education. CO2: Will have knowledge about various phases of Education during the British period. CO3: Will have knowledge about Indian response to western education and Education in the post Independence Period. CO4: Will have knowledge about National Policy On Education 1986 1992 And 2020. CO5: Will have knowledge about the National Educational 5nstitutions.
Paper-IV(B) Population Education	CO1: Will have understanding of the concept need, terminology and importance of population education. CO2: Will be aware of Population Dynamics and factors affecting population growth. CO3: Will have knowledge about the Population and quality. CO4: Will have knowledge about the Population and literacy campaigns. CO5: Will have knowledge about the Population education in Schools in India.
PAPER V Modern Educational Thinkers	CO1: Will have knowledge about the educational Thinkers. CO2: Will be acquainted with the knowledge of various critical study of educational thought of Indian Educators. CO3: Will have understanding of the concept of Basis Education. CO4: Will have knowledge about the Integral Education, it's basis premises. CO5: Will have knowledge about the educational thought of Man making education.
M.A. (Education) Paper-VI (Credit-03) Not for M.A. (Edu) Students) Personality Development and Yoga (I)	CO1: Will be acquainted with the basis concept of teaching. CO2: To know about the types of teaching. CO3: To understand the skills of teaching. CO4: To Learn the concept of Learning Design. CO5: : Will be acquainted with the Teaching Aids.

Semester-II

Course Outcome (COs): After completion of the course, the student :	
Paper-I Comparative Education	CO1: Will be aware of the Meaning, Scope and major concepts and methods of comparative education. CO2: Will be aware of various factors and approaches of Comparative education.

	CO3: Will be able to compare the Educational Systems of Various Countries. CO4: Will be able to determine the causes and solutions of problems prevailing in developing countries through education. CO5: Will be able to comparative study of educational systems of country.
Paper-II Psychological bases of Education	CO1: Will understand the major concepts, Concerns and Scope of Education Psychology, Contribution of Psychology to Education. CO2: Will be aware of the various theories of learning. CO3: Will understand the major concepts of Human Development with their General Characteristics and the related problems and factors influencing their development. CO4: Will be aware of the various theories of Intelligence and Creativity and types of personality and their assessment. CO5: Able to understand Individual differences and it's implications for education.
Paper-III Educational Administration and Management	CO1: Will be aware and understand the meaning, principals, types, theories and Functions of educational administration. CO2: able to understand Role of Central, state and local bodies in education. CO3: will be aware of modern concept of educational administration. CO4: Will be aware and understand the Leadership and educational supervision. CO5: Will be aware and understand the Taylorism,administration in education
Paper-IV (a) Human Right Education	CO1: Will be acquainted with the Basis Concept of human rights. CO2:To know the role of United Nations and human rights. CO3:To understand enforcement mechanism in India. CO4: To know the role of advocacy groups. CO5: Will be acquainted with the knowledge of Human Values
Paper-IV(B) COMPUTER EDUCATION	CO1: Will have Introductory knowledge of the concept and Importance of Information Technology, Fundamentals of Computers. CO2: Will have practical knowledge of modern Word Processing Applications. CO3: Will have practical knowledge of Modern Operating systems. CO4: To acquire and sufficient knowledge of Modern Data Base Management Applications. CO5:To develop skills of creating and managing simple databases and handling of computer.
PAPER V Practical Work & Viva-Voce	CO1: Will be able to prepare a detailed report on various Educational Facts Psychological tests. CO2: Will be able to understand the Intelligence test and Personality test. CO3: Will be able To measure the interest by interest inventory. CO4:To know the level of adjustment. CO5: Will be able to understand the learning by substitution method.
M.A. (Education) Paper-VI Communication Skills. Not for M.A.Education Students	CO1: To understand the basis elements of communication. CO2: Will be able to acquire Speaking Skills. CO3: Will be able to acquire listening skills. CO4: Will be able to acquire Reading and Writing Skills. CO5: :Will be able to understand the Group Discussion

Semester-III

Course Outcome (COs): After completion of the course, the student :

Paper-I SPECIAL EDUCATION	CO1: Will be aware of Know about the meaning and scope of special education in India. CO2: Will be aware of various commissions for children with special needs. CO3: Will be able to Identify the specific characteristics and understand modalities. CO4: Will be able to Identify the various education intervention programmes for meeting the needs of exceptional learners. CO5: Will have knowledge about the mainstreaming and Integrated School.
Paper-II EDUCATIONAL GUIDANCE AND COUNSELLING	CO1: Will be able to understand the concept, Principles and Nature of Guidance Programme, Types of guidance and Role of the teacher and Agencies in guidance. CO2: Will be aware of the Vocational Guidance concept and its Nature of work, Theories and approaches to career guidance, Vacationalisation of secondary education and career development. CO3: Will be aware of the Counselling Process, its Concept, nature, principles approaches and its characteristics. CO4: Will also be able to know about guidance to role of the teacher in helping such children. CO5: : Will be able to understand the Guidance of Children with special needs.
Paper-III FOUNDATION OF TECHNOLOGY	CO1: Will be aware and understand the Concept, Meaning, Nature, Scope and significance, Components, System Approach of ET. CO2: Able to understand Concept, Nature, Process, Components, Types & Theories of Classroom Communication with Mass media approach. CO3: Will have knowledge of Modification of Teaching Behaviour, Micro teaching, Flanders's Interaction Analysis, Simulation and Models of Teaching. CO4: Will be aware of Programmed and Teaching machines. Computer Assisted Instruction and various Resource Centres for Educational Technology. CO5: Will be aware and understand the Computer Assisted Instruction and various Resource Centres for Educational Technology.
Paper-IV (A) INDIAN PHOLOSOPHIES OF EDUCATION	CO1: Will be aware of basic concepts of Indian Philosophy and Education. CO2: Will be aware of basic concepts of Indian schools of thought and Six Schools of Thought. CO3: Will be able to do appraisal of the contribution toward education of Vivekananda, Aurbindo, Gandhi and Tagore critically. CO4: Will be able to compare the Buddhism and Jainism. CO5: Will have knowledge about the Darshan,Dharma and Vidya.
Paper-IV (B) Educational Measurement and Evaluation	CO1: Will have knowledge about the Need and Importance of Educational Measurement and Evaluation. CO2: Will be aware of Scales of measurement Norms, Models in Educational evaluation, Test Norms. CO3: Will be aware of the tools for measuring intelligence personality, Aptitude, Interest, Creativity. CO4: Will have knowledge about the evaluation programme, institutional programme evaluation; methods of feedback from students. CO5: Will have knowledge about the examination reform, grading system, continuous internal assessment, semester system, question bank, use of computer in examination and evaluation and on line examination on demand.
Paper-V	CO1:To know the historical perspective of women education.

Women Education	CO2: To know the role of Indian thinkers towards women education. CO3: To know the policy perspective and committees and commission on women education. CO4: To identify major constrains of women education. CO5: Will be acquainted with the power of women empowerment.
Paper-VI Skills of Democratic Citizenship Not for M.A. Education Students	CO1: Have an idea about their duties as citizens . CO2: Have an idea about their rights as citizens. CO3: Have an idea about child violence and child rights. CO4: Have an idea about domestic violence and domestic rights. CO5: Have an idea about the Awareness programmes-rallies,debates.

Semester-IV

Course Outcome (COs): After completion of the course, the student :	
Paper-I ENVIRONMENTAL EDUCATION	CO1: Will have knowledge about the Concept, Importance and Scope of Environmental Education. CO2: Will be aware of Concept of pollution Concept, at various stages of education. CO3: Will be aware of Concept of ecosystem and application of technological tools. CO4: Will be aware of Concept of systems for solving the present Environmental Problem through Education. CO5: Will have knowledge about the environmental studies in different countries.
Paper-II ECONOMICS OF EDUCATION	CO1: Will be aware of concept, definition, scope and Importance of Economics of Education. CO2: Will be able to interpret Education as an Industry and Education as Investment. CO3: Will be able to interpret Economic Development and Modernization with the educational development. CO4: Will be acquainted with the knowledge of resources for Education at various levels and problems of financing, Grant-in-aid system
Paper-III DISTANCE EDUCATION	CO1: Will be aware and able to understand Distance Education System, Definitions and Teaching Learning Components. CO2: Will be aware of Distance Teaching Learning Systems in India and open universities of U.K. Australia & China. CO3: Will be aware of Information and Communication Technologies and their Applications in Distance Education, Designing and Preparing Self-Instructional Material, Role of Media and Distance Educator. CO4: Will be aware of Student Support Services and their Management, Technical and Vocational Programmes, Rural Development and Problems of Distance Learners. CO5: Will be acquainted with the knowledge of Quality Enhancement and Program Evaluation, Mechanism and Maintenance of Standards in Distance Education.
Paper-IV TEACHER EDUCATION	CO1: Will be aware of Meaning & Scope and objectives of teacher education at different levels. CO2: Will be able to understand preparation of Teachers for pre-primary, primary & secondary stages of education, Professional preparation of

	teacher educator & educational administrators. CO3: Will have knowledge of Student-teaching programme, Pattern of student- teaching internship, block teaching, teaching practice, off campus teaching programme. CO4: Will be able to understand the Preparation of teachers for the teaching of Particular subjects Languages, social sciences and physical sciences. CO5: Will have knowledge of Techniques of training. Core teaching. Microteaching and Interaction analysis.
Paper-IV (B) Curriculum Development	CO1: Will be able to understandthe bases and determinants of curriculum, Curriculum development, Theories and procedures. CO2: Will be aware of Principles and Approaches Curriculum Design and organization, Components and source of design, Different models and principles, Deduction of curriculum from aims and objectives of education. CO3: Will be aware of Curriculum Implementation Strategies & Role of Curriculum support materials. CO4: Will be able to understand Importance of evaluation of curriculum, Models of curriculum evaluation, Interpret evaluation of results and method, Issues and trends in curriculum development. CO5: Will be able to understand Importance of curriculum research in India.
Paper-V Practical Work and Viva-Voce (i)Writing Research Proposal Or Dissertation (ii)Book Review	CO1: Will gain ability of writing presentation of a Research Proposal. CO2: Will be able to understand the book review. CO3: Will be able to do Dissertation. CO4: Be able to understand how to construction of research proposal. CO5: : Be able to practically perform the research proposal.
Paper – VI Life Skills Education (Not for M.A Education	CO1: Will be able to understand the meaning of life skills. CO2: To be acquainted with the different types of life skills. CO3: To know about the problem specific skills. CO4: Be able to understand training and techniques of life skills. CO5: Will be aware of life skills for leadership training .

B.A.[English]	
Programme Outcome (POs)	
PO1	To understand knowledge in the field of humanities.
PO2	To be cultured and good citizen of India.
PO3	Eligible for admissions to post-graduate programs/Research/further studies.
PO4	To use communication and soft skills.
PO5	To be socially conscious.
PO6	To make all round personality development of the learners.
Programme Specific Outcome (PSOs)	
PSO1	Students will value literature, language and imagination they will develop a passion for literature, and language.
PSO2	They will develop an ability to read texts in relation to their historical and cultural contexts in order to gain.
PSO3	They will appreciate literatures ability to elicit feeling, cultivate imagination

	and call us to account as humans.

Course Outcome- B.A.[English]

Semester-I

Course Outcome (COs): After Completing the Course the student will be able to :	
Poetry	CO1: Understand & appreciate the works of English literature of William Shakespeare, CO2: Understand & appreciate the works of English literature of John Donne. CO3: Understand & appreciate the works of English literature of John Milton. CO4: Understand & appreciate the works of English literature of John Dryden CO5: Understand & appreciate the works of English literature of Alexandure Pope.
Drama	CO1: Explain the passages from literary point of view of George Bernard Shaw –Arms and the Man. CO2: Critical analysis of George Bernanrd Shaw – Arms and the Man. CO3: Explain the passages from literary point of view of Arthur Miller - All My Sons. CO4: Critical analysis of Arthur Miller - All My Sons. CO5: Comparative analysis both of the above novels.
Prose & Fiction	CO1: Understand the essays on Anthalogy of English prose. CO2: Understand the essays on Anthalogy of English prose of the Francis Bacon – The Bible. CO3: Understand the essays on Anthalogy of English Prose of the John Milton. CO4: Understand the essays on Anthalogy of English Prose of the Joseph Addison. CO5: Understand the essays on Anthalogy of English Prose of R.K. Narayan's The Guide.

Semester-II

Course Outcome (COs): After Completing the Course the student will be able to :	
Poetry	CO1: Understand & appreciate the works of English literature poets such as: Collins William Blake Unit-IV: William wordsworth , Shelley and Keats
Drama	CO1: Explain the passages from literary point of view of the The Merchant of Venice: The theatre of ideas. Its origin, influence and characteristics. CO2: Understand the Significance of various characters: Shylock, Portia, Antonio, Bassanio, Gratiano, Lorenzo, Nerissa, Launcelot Goffo, Salarina, Solanio, Tubal, Doctor Bellario and Balthasar. CO3: Appreciate and analyse the passages from literary point of view of the The title of the „Merchant of Venice‟. CO4: Appreciate and analyse the passages from literary point of view of the Sheridan‟s School for scandal is 18th century comedy of manners. CO5. Appreciate "The title School for Scandal".
Prose &	CO1: Understand the literary significance of essays on Anthalogy of

Fiction	English prose. CO2: Understand the literary significance of essays on Anthalogy of English prose of the Richard Steele: The spectator Club. CO3: Understand the literary significance of essays on Anthalogy of English prose of the Oliver Goldsmith – the story of the Man in Black. CO4: Understand the literary significance of essays on Anthalogy of English prose of the Samuel Johnson: Letter to chesterfield. CO5: Understand the literary significance of essays on Anthalogy of English. Robert Louis Stevenson: Walking Tours. & The Collie.

Semester-III

Course Outcome (COs): After Completing the Course the student will be able to :	
Poetry	CO1: Understand & appreciate the works of English poets. CO2: Understand & appreciate the works of Tennyson. CO3: Understand & appreciate the works of Browning & Arnold. CO4: Understand & appreciate the works of Hardy. CO5: Understand & appreciate the works of G.M. Hopkins.
Drama	CO1: Explain the passages from literary point of view of the Shakespeare's Drama. CO2: Explain the passages from Macbet. CO3: Critical analysis of Macbeth. CO4: Explain the passages from Twelfth Night. CO5: Critical analysis of Twelfth Night.
Prose & Fiction	CO1: Understand the literary significance of essays on Anthalogy of English prose. CO2: Understand the literary significance of essays on Anthalogy of the E.V. Lucas. CO3: Understand the literary significance of essays on Anthalogy of the Robert Lynd & G.K. Chesterton. CO4: Understand the literary significance of essays on Anthalogy of the A.G. Gardiner. CO5: : Understand the literary significance of essays on Anthalogy of the Mulk Raj Anand.

Semester-IV

Course Outcome (COs): After Completing the Course the student will be able to :	
Poetry	CO1: Understand & appreciate the works of English literature poets. CO2: Understand & appreciate the works of W.B. Yeats. CO3: Understand & appreciate the works of T. S. Eliot. CO4: Understand & appreciate the works of W.H. Auden. CO5: Understand & appreciate the works of Philip Larkin & Wilfred Owen.
Drama	CO1: Explain the passages from literary point of view of the Shakespeare Drama. CO2: Explain the passages from literary point of view of the Shakespeare Drama-Julius Caesar. CO3: Critical analysis of the Julius Caesar. CO4: Comparative study of the Julius Caesar. CO5: Dramatics study of the Julius Caesar.
Prose & Fiction	CO1: Understand the literary significance of essays on Anthalogy of English modern prose.

	CO2: Understand the literary significance of essays on Anthalogy of the Aldous Huxley. CO3: Understand the literary significance of essays on Anthalogy of the J.B. Priestly. CO4: Understand the literary significance of essays on Anthalogy of the Bertrand Russel. CO5: Understand the literary significance of essays on Anthalogy of the George Orwell.

Semester-V

Course Outcome (COs): After Completing the Course the student will be able to :	
Fiction	CO1: Understand & appreciate the works of English literature Fictions. CO2 Understand & appreciate the works of the Jane Austen. CO3 Understand & appreciate the works of the Thomas Hardy. CO4 Understand & appreciate the works of the E.M. Forster. CO5 Understand & appreciate the works of the Raja Rao.
Drama	CO1: Explain the passages from literary point of view of the plays by William Shakespeare. CO2: : Explain the passages from literary point of view of the plays by T.S. Eliot. CO3: : Explain the passages from literary point of view of the plays by John Osborne . CO4: : Explain the passages from literary point of view of the plays by Girish Karnad. CO5: : Critical Explain the passages from literary point of view of the plays as mentioned above.
Prose & Fiction	CO1: Understand the shades of Tragedy in Dramas and Novels. CO2: Understand the shades of Tragedy in Novels. CO3: Understand the shades of Comedy in Dramas. CO4: Understand the shades of Romance in Dramas. CO5: Understand the shades of Romance in Novels.

Semester-VI

Course Outcome (COs): After Completing the Course the student will be able to :	
Fiction	CO1: Understand & appreciate the works of English literature Fictions of R.K. Narayan. CO2: Understand & appreciate the works of English literature Fictions of D.H. Lawrence. CO3: Understand & appreciate the works of English literature Fictions of Shashidesh Pande. CO4: Understand & appreciate the works of English literature Fictions of George Eliot. CO5: Comparative study of English Literature Fictions.
Drama	CO1: Explain the passages from literary point of view of the plays by William Shakespeare. CO2: Explain the passages from literary point of view of the plays by John Webster. CO3: Explain the passages from literary point of view of the plays by G.B. Shaw. CO4: Explain the passages from literary point of view of the plays by Henrik Ibsen.

	CO5: Explain the passages from dramatistic point of view of the above plays.
Prose & Fiction	CO1: Understand the forms and movements of poetry and Lyrics. CO2: Understand the forms and movements of Renaissance. CO3: Understand the forms and movements of Neo-Classicism & Romantic Revival. CO4: Understand the forms and movements of Modernist Movement & Post Modernism. CO5: Understand the forms and movements of Feminism and Dalit Movement.

M.A.[English]	
Programme Outcome (POs)	
PO1	The Students acquire in depth knowledge in the field of social sciences, literature and humanities which make then sensitive and sensible to solve the issues related with mankind.
PO2	The postgraduates will be acquainted with the social economical, historical, political and philosophical traditional thinking of their respective subjects
PO3	The Program also empowers the postgraduates to appear for various competitive examinations or choose the any postgraduate or research programmers of their choice.
PO4	The M.A. program enables the students to acquire the knowledge with human values framing the base to 3 deal with various problems in life with courage and humanity.
PO5	The students will be ignited enough through the knowledge of the special P.G. program to think and act over for the solution of various issues prevailed in the human life to make this world better than ever
Programme Specific Outcome (PSOs)	
PSO1	They will develop an ability to read texts in relation to their historical cultural contexts in order to gain a richer understating of both text and contest and to become more aware themselves.
PSO2	Students will value literature language and imagination they will develop passion for literature and language.
PSO3	They will appreciate literatures ability to elicit feeling, cultivate the imagination and call us to account as humans.
PSO4	They will cultivate capacity to judge the aesthetic and ethical value of literary texts and be able to articulate the standards behind their judgments
PSO5	Students will develop appreciation of how the formal elements of language and genre shape meaning.

Course Outcome- M.A.[English]

Semester-I

Course Outcome (COs): After Completing the Course the student will be able to :	
Paper-I Poetry	CO1: Understand & appreciate the works of English literature poets of Romantic Age. CO2: Understand & appreciate the works of Chaucer & Edmund Spenser CO3: Understand & appreciate the works of Milton & Alexander Pope. CO4: Understand & appreciate the works of John Dryden & William Wordsworth.

	CO5: Understand & appreciate the works of Samuel Taylor Coleridge and Percy Bysshe Shelley.
Paper-II Drama	CO1: Explain the passages from literary point of view of Dramatists of the Sophocles. CO2: Explain the passages from literary point of view of Dramatists of the Christopher Marlowe. CO3: Explain the passages from literary point of view of Dramatists of the William Shakespeare & John Dryden. CO4: Explain the passages from literary point of view of Dramatists of the William Congreve. CO5: Explain the passages from literary point of view of Dramatists of the George Bernard Shaw.
Paper-III Prose	CO1: Understand the essays of English prose of the Bacon. CO2: Understand the essays of English prose of the John Milton. CO3: Understand the essays of English prose of the Jonathan Swift. CO4: Understand the essays of English prose of the Joseph Addison and Richard. CO5: Understand the essays of English prose of the Steele and Charles Lamb.
Paper-IV (a)	CO1: Understand and appreciate the Novels of English Fiction of renowned Western Novelists of 18th Century. CO2: Understand and appreciate the Novels of English Fiction - Jane Austen. CO3: Critically understand the Novels of English Fiction - Jonathan Swift. CO4: Critically understand the Novels of English Fiction of Jonathan Swift. CO5: Comparative study of the above Novels of English Fiction.
Paper-IV (b)	CO1: Understand and appreciate the Novels of English Fiction of renowned Indian and Western Novelists of 19th & 20th Century. CO2: Understand and appreciate the Novels of English Fiction of renowned Indian and Western Novelists of 19th & 20th Century of the James Joyce. CO3: Understand and appreciate the Novels of English Fiction of renowned Indian and Western Novelists of 19th & 20th Century of the D.H Lawrence. CO4: Understand and appreciate the Novels of English Fiction of renowned Indian and Western Novelists of 19th & 20th Century of the R.K Narayan. CO5: Understand and appreciate the Novels of English Fiction of renowned Indian and Western Novelists of 19th & 20th Century of the Anita Desai.
Paper-IV (c)	CO1: Understand and appreciate the Novels of English Fiction of renowned works of Indian Writers of 20th Century. CO2: Understand and appreciate the Novels of English Fiction of renowned works of Indian Writers of 20th Century such as M.K. Gandhi. CO3: Understand and appreciate the Novels of English Fiction of renowned works of Indian Writers of 20th Century such as J.L Nehru. CO4: Critical study of the Novels of English Fiction of renowned works of Indian Writers of 20th Century such as M.K. Gandhi. CO5: Critical study of the Novels of English Fiction of renowned works

	of Indian Writers of 20th Century such as J.L Nehru etc.
Paper-V Foundation: Communicative English-I	CO1: Understand and will acquire various skills of Communicative English. CO2: Understand and will acquire various skills of Communication. CO3: Understand and will acquire various skills of Letter writing. CO4: Understand and will acquire various skills of Presentation. CO5: Understand and will acquire various skills of Foundation: Communicative English.
Paper-VI Foundation: Paper	CO1: Will acquire basics knowledge of General English. CO2: Will acquire basics knowledge of General Grammer. CO3: Will acquire basics knowledge of General English Grammer and its application in writing Essays. CO4: Will acquire basics knowledge of translations. CO5: Will acquire basics knowledge of unseen passges.

Semester-II

Course Outcome (COs): After Completing the Course the student will be able to :	
Paper-I Poetry	CO1: Understand & appreciate the works of English literature poets of Romantic age to Modern Poetry. CO2: Understand & appreciate the works of English literature poets of Romantic age to Modern Poetry of John Keats & Alfred Tennyson. CO3: Understand & appreciate the works of English literature poets of Romantic age to Modern Poetry of Robert Browning Mathew Arnold. CO4: Understand & appreciate the works of English literature poets of Romantic age to Modern Poetry of Gerard Manley Hopkins & William Butler Yeats. CO5: Understand & appreciate the works of English literature poets of Romantic age to Modern Poetry of Thomas Sterns Eliot & Robert Graves.
Paper-II Drama	CO1: Interpret from literary point of view of Dramatists. CO2: Interpretation of literary point of Shakespeare. CO3: Interpretation of literary point of Thomas Stems Eliot. CO4: Interpretation of literary point of Samuel Beckett & Galsworthy. CO5: Interpretation of literary point of Arthur Miller of Twentieth Century.
Paper-III Prose	CO1: Understand the essays of English prose of renowned essayists. CO2: Understand the essays of English prose of Thomas Carlyle. CO3: Understand the essays of English prose of John Stuart Mill. CO4: Understand the essays of English prose of Jawahar Lal Nehru. CO5: Understand the essays of English prose of George Bernard Shaw, and George Will.
Paper-IV (a) Fiction	CO1: Understand and appreciate the Novels of English Fiction of renowned Western Novelists of 18th Century. CO2: Understand the novels of Jane Austen. CO3: Critical study of the novels of Jane Austen. CO4: Understand the novels of Henry fielding. CO5: Critical study of the novels of Henry fielding.
Paper-IV (b)	CO1: Understand and appreciate the Novels of English Fiction of renowned Indian and Western Novelists of 19th to 20th Century. CO2: Understand the novels of Jane Austen. CO3: Critical study of the novels of Charles Dickens. CO4: Understand the novels of Mulk Raj Anand.

	CO5: Critical study of the novels of Shashi Deshpande.
Paper-IV (c)	CO1: Understand and appreciate the Novels of English Fiction of renowned Indian and Western Novelists of 20th Century. CO2: Understand the novels of as Virginia woolf. CO3: Critical study of the novels of as Virginia woolf. CO4: Understand the novels of Anthony Burgess. CO5: Critical study of the novels of Anthony Burgess.
Paper-V English Language Teaching-I	CO1: Understand and will acquire Knowledge and skill of discussion CO2: Background of Englishs Language. CO3: Major theories of learning. CO4: Advantage of English Language. CO5: Limitation of English Language.
Paper-VI Foundation: Paper	CO1: Will acquire basics knowledge of General English Grammer. CO2: Application in writing essays. CO3: Techniques of Translations. CO4: Interpretation of unseen passages. CO5: Increasing the knowledge of various parts of English Grammer.

Semester-III

Course Outcome (COs): After Completing the Course the student will be:	
Paper-I English Literature and Society	CO1: Ability to Interelate the influence of Society on English literature from the 1700 A.D. to 1750 A.D. CO2: Ability to Interelate the influence of Society on English literature from the 1750 A.D. to 1800 A.D. CO3: Ability to Interelate the influence of Society on English literature from the 1800 A.D. to 1850 A.D. CO4: Ability to Interelate the influence of Society on English literature from the 1850 A.D. 1900 A.D. CO5: Critically analyse to Interelate the influence of Society on English literature from the Renaissance period to the present day and gain ability to Counter culture.
Paper-II (Literary Criticism)	CO1: aware of History of criticism. CO2: Theory of Literary and Principal of criticism. CO3: Nautre and Function of Literature & Changes in Literary. CO4: Literature and Psychology. CO5: Forms and content in Literature and Literary Genres and critical terms.
Paper-III (Indian Literature)	CO1: Acquire knowledge of Indian authors. CO2: Acquire knowledge of Indian poets. CO3: Works like Toru Dutt & Nissim Ezekiel. CO4: Works like Kamla Das & Mulk Raj Anand. CO5: Works like Anita Desai, R.K. Narayan, M.K. Gandhi, Sri Auro bindo, J.L. Nehru and Shashi Desh Pande.
Paper-IV (a) Fiction	CO1: Understand and appreciate the Novels. CO2: English Fiction of 18th century novels. CO3: Novels of Henry fielding CO4: Novels of Jane Austen. CO5: Characteristics of 18th century novels.
Paper-IV (b)	CO1: Understand and appreciate the Novels of English Fiction.

Fiction	CO2: 19th century novels of Charles Dickens. CO3: 19th century novels of George Eliot. CO4: Understand and appreciate the Indian Novels. CO5: English Fiction of Shashi deshpande & Mulk Raj Anand.
Paper-IV (c) Fiction	CO1: Understand and appreciate the Novels of English Fiction. CO2: 20th century novel. CO3: Novels of Thomas hardy CO4: Novels of Henry James. CO5: Characterisics of 20th century Novel.
Paper-V Foundation: Communicative English-II	CO1: Understand and will acquire Knowledge of Communicative English. CO2: Technical Writing. CO3: Group Discussions. CO4: Facing an Interview. CO5: Understand of Foundation of Business Writing.
Paper-VI Foundation: Paper	CO1: Will acquire basics knowledge of General English. CO2: Will acquire basics knowledge of Grammer and its application. CO3: Will acquire basics knowledge of writing Essays. CO4: Will acquire basics knowledge of Translations. CO5: Will acquire basics knowledge of Unseen passages etc.

Semester-IV

Course Outcome (COs): After Completing the Course the student will be:	
Paper-I (Literature and Society)	CO1: Ability to Interelate the influence of Society on English literature from the 1700 A.D. to 1750 A.D. CO2: Ability to Interelate the influence of Society on English literature from the 1750 A.D. to 1800 A.D. CO3: Ability to Interelate the influence of Society on English literature from the 1800 A.D. to 1850 A.D. CO4: Ability to Interelate the influence of Society on English literature from the 1850 A.D. 1900 A.D. CO5: Critically analyse to Interelate the influence of Society on English literature from the Renaissance period to the present day and gain ability to Counter culture.
Paper-II (Literary Criticism)	CO1: Have in-depth awareness of History and types of Literary critism, CO2: Have in-depth awareness of Theory of Literature. CO3: Critically analyse to Theory of Literature. CO4: Have in-depth awareness of principles of criticism. CO5: Critically analyse to principles of criticism.
Paper-III (American Literature)	CO1: acquire knowledge of American authors and poets and their works like Walt, Robert Frost, Emily Dickinson, Eugene 0 Neill & Wallace Stevens. CO2: acquire knowledge of American authors and poets and their works of the Walt. CO3: acquire knowledge of American authors and poets and their works of the Robert Frost.

	CO4: acquire knowledge of American authors and poets and their works of the Emily Dickinson. CO5: acquire knowledge of American authors and poets and their works of the Eugene O Neill & Wallace Stevens.
Paper-IV (a)	CO1: Understand and appreciate the Novels of 18th century novelists. CO2: Understand and appreciate the Novels of 18th century novelists. such as Oliver goldsmith. CO3: Critically analyse to principles of Oliver goldsmith criticism. CO4: Understand and appreciate the Novels of 18th century novelists. of the Samuel Richardson. CO5: Critically analyse to principles of Samuel Richardson criticism.
Paper-IV (b)	CO1: Understand and appreciate the Novels of 19th and 20th century Novelists such as Emily bronte and William Make Thackrey. CO2: Understand and appreciate the Novels of 19th and 20th century Novelists - Emily bronte. CO3: Understand and appreciate the Novels of 19th and 20th century Novelists - William Make Thackrey. CO4: Understand and appreciate the works of Indian Novelists - R.K Narayan. CO5: Understand and appreciate the works of Indian Novelists - Shashi deshpande.
Paper-IV (c)	CO1: Understand and appreciate the works of Novelists of 20th century. CO2: Understand and appreciate the works of Novelists of 20th century - Virginia woolf. CO3: Critically analyse to principles of Virginia woolf. CO4: Understand and appreciate the works of Novelists of 20th century - Antony Burgess. CO5: Critically analyse to principles of Antony Burgess.
Paper-V Foundation: Communicative English-II	CO1: ability to differentiate between written and spoken English, Guided versus free composition, Issues in teaching English pronunciation, Accuracy and fluency, Skimming and scanning CO2: Will be aware of Lewis's lexical approach, advantages and limitations of teaching grammar formally, User's, teacher's and linguist's grammar, Role of dictionaries in learning a language, Note taking and note making. CO3:Will gain ability to teach literature in English classrooms and will be aware of the role of culture in studying literature, CO4: ability to differentiate between teaching language and teaching literature. CO5: Aware of the role of the internet in language teaching, their advantages and limitations.
Paper-VI Foundation: Paper	CO1: Will acquire basics knowledge of General English. CO2: Will acquire basics knowledge of General Grammer. CO3: Will acquire basics knowledge of General writing Essays. CO4: Will acquire basics knowledge of General unseen passages etc. CO5: Will acquire basics knowledge of General English Foundation.

B.A.[Hindi]	
Programme Outcome (POs)	
PO1	हिन्दी विषय के विशेष ज्ञान की प्राप्ति।
PO2	हिन्दी गद्य एवं काव्य का विस्तृत अध्ययन।
PO3	हिन्दी साहित्य के इतिहास का पूर्ण ज्ञान।
PO4	काव्य शास्त्र एवं साहित्य सिद्धान्त एवं हिन्दी आलोचना का विशेष अध्ययन।
PO5	प्रयोजनमूलक हिन्दी का विस्तृत अध्ययन।
Programme Specific Outcome (PSOs)	
PSO1	इस पाठ्यक्रम से स्नातक करने वाले छात्र हिन्दी भाषा के साहित्यिक एवं भाषा विज्ञान सम्बन्धी विशेषताओं से पूर्णतः परिचित हो सकेगे।
PSO2	विद्यार्थी प्राचीन काल के सामाजिक मानवीय मूल्यों को हिन्दी भाषा के माध्यम से समझ सकेंगें ।
PSO3	इस पाठ्यक्रम के माध्यम से हिन्दी भाषा का ज्ञान प्राप्त कर विश्व स्तर पर हिन्दी भाषा को सर्वोत्तम स्थान दिला सकेगें।
PSO4	हिन्दी भाषा को इस पाठ्यक्रम के माध्यम से विद्यार्थियों के व्यवहारिक पटल पर भी उपयोगी बनाया गया है।
PSO5	इस पाठ्यक्रम को पढ़ने के पश्चात विद्यार्थी परास्नातक हिन्दी भाषा मे अध्ययन कर सकेंगें।

Course Outcome- B.A.[Hindi]

Semester-I

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र आधूनिक हिन्दी कविता (द्विवेदी युगीन एवं छायावादी कविता)	CO1: इस प्रश्न पत्र में आधुनिक हिन्दी कविता का विशेष ज्ञान प्राप्त करने के साथ ही साथ आधुनिक हिन्दी के द्विवेदी एवं छायावादी युग से परिचित होगें। CO2: इस प्रश्न पत्र में काव्य का विशेष ज्ञान प्राप्त होगा । CO3: इस प्रश्न पत्र में आधुनिक हिन्दी कविता रखने का मूल्य उद्देश्य काव्य के विभिन्न स्वरूपों से विद्यार्थियों को परिचित कराना है। CO4: सूर्यकान्त त्रिपाठी निराला के कार्य का विशेष अध्ययन। सुमित्रानंदन पंत के प्रकृति चित्रण एवं मानवीकरण का अध्ययन। CO5: महादेवी वर्मा के काव्य का विशेष अध्ययन।
द्वितीय प्रश्न–पत्र गद्य साहित्य की विभिन्न विधाएं	CO1: इस प्रश्न पत्र में गद्य की विभिन्न विधाओं जैसे– निबन्ध, नाटक एवं एकांकी आदि का विशेष ज्ञान प्राप्त कराना है। CO2: इस प्रश्न पत्र के माध्यम से विद्यार्थी गद्य में ज्ञान प्राप्त कर उसके स्वरूप एवं उसमें व्याप्त ज्ञान से परिचित होगें। CO3: इस प्रश्न पत्र के माध्यम से विद्यार्थी निबन्ध,नाटक, एकांकी का अध्ययन कर व्यवहारिक ज्ञान एवं साहित्यिक ज्ञान दोनों प्राप्त

	कर सकेगें। CO4: निबन्ध लेखन एवं उद्भव एवं विकास का अध्ययन। CO5: नाटक का उद्भव विकास का विशेष अध्ययन।

Semester-II

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र आधूनिक हिन्दी कविता (प्रगतिवादी एवं प्रयोगवादी कविता)	CO1: इस प्रश्न पत्र मे छात्रों को आधुनिक हिन्दी कविता के प्रगतिवादी एवं प्रयोगवादी काव्य से परिचित कराया जायेगा। CO2: इस प्रश्न पत्र में रस, छन्द, अलंकार और अन्य रूप गुण –दोष, भाषा शैली इत्यादि से परिचित कराया जायेगा। CO3: विद्यार्थी काव्य की विशेष जानकारी (ज्ञान) प्राप्त कर सकेगें। CO4: नागार्जुन एवं केदारनाथ अग्रवाल के काव्य का अध्ययन। CO5: गजानन–माधव मुक्तिबोध और तिलोचक के कविता का विश्लेषात्मक अध्ययन।
द्वितीय प्रश्न–पत्र हिन्दी गद्य साहित्य (कहानी एवं उपन्यास)	CO1: इस प्रश्न पत्र में गद्य के कहानी एवं उपन्यास पक्ष को रखा गया है। CO2: कहानी एवं उपन्यास के अध्ययन के साथ–साथ उसके तत्व, इतिहास से भी परिचित होगे। CO3: कहानी एवं उपन्यास का अध्ययन कर उससे व्यवहारिक ज्ञान भी प्राप्त कर सकेगें। CO4: कहानी तत्वों का विवेचन करना। उपन्यास का तार्किक महत्व बताना। CO5: उपन्यास का उद्भव एवं विकास का परिचय।

Semester-III

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र भक्तिकालीन हिन्दी काव्य	CO1: इस प्रश्न में भक्ति कालीन हिन्दी काव्य से परिचित होगें। CO2: भक्ति कालीन हिन्दी कवियों मे कबीर, जायसी, सूरदास, तुलसीदास आदि कवियों से विद्यार्थी परिचित होगें। CO3: इस प्रश्न पत्र में साहित्यिक ज्ञान के साथ ही साथ व्यवहारिक ज्ञान भी होगा।

	CO4: विद्यार्थी महाकाव्य से भी परिचित होगे। CO5: जायसी के वियोग खंड का विश्लेषण। सूरदास को काव्य का चित्रात्मक विवरण। तुलसीदास की भक्ति एवं दार्शनिकता का परिचय।
द्वितीय प्रश्न–पत्र हिन्दी साहित्य का इतिहास (आदि कालीन एवं भक्ति कालीन)	CO1: इस प्रश्न पत्र में विद्यार्थी हिन्दी के आदि कालीन एवं भक्ति कालीन इतिहास से परिचित होगें CO2: साहित्यिक इतिहास के परिचय से हिन्दी के काल विभाजन एवं उनके कवि एवं लेखकों का ज्ञान प्राप्त होगा। CO3: हिन्दी साहित्य का समुचित ज्ञान प्राप्त होगा। CO4: साहित्य के अभिव्यक्ति का स्वरूप। भक्तिकालीन काव्य का विवेचन। CO5: निर्गुण भक्ति साहित्य एवं सगुण भक्ति साहित्य का अध्ययन।

Semester-IV

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र रीतिकालीन हिन्दी काव्य	CO1: चतुर्थ सेमेस्टर के प्रथम प्रश्न पत्र में विद्यार्थी रीतिकालीन हिन्दी काव्य से परिचित होगें CO2: विहारी और घनानन्द के काव्य के अध्ययन के पश्चात मुक्तक काव्य से भी परिचित होगें। CO3: रीति काव्य के अध्ययन से व्यवहारिक पक्ष का ज्ञान होगा। CO4: साहित्य के अभिव्यक्ति का स्वरूप। भक्तिकालीन काव्य का विवेचन। CO5: निर्गुण भक्ति साहित्य एवं सगुण भक्ति साहित्य का अध्ययन।
द्वितीय प्रश्न–पत्र रीतिकालीन एवं आधूनिक कालीन साहित्य का इतिहास	CO1: इस प्रश्न पत्र में विद्यार्थी हिन्दी साहित्य के रीति कालीन एवं आधुनिक कालीन इतिहास से परिचित होगें। CO2: हिन्दी साहित्य के रीति कालीन एवं आधुनिक कालीन कवि एवं लेखकों से विस्तृत परिचय होगा। CO3: इस प्रश्न पत्र में विद्यार्थी को हिन्दी साहित्य का विशेष ज्ञान प्राप्त होगा। CO4: पुर्नजागरण और हिन्दी क्षेत्र का अध्ययन। द्विवेदीयुगीन काव्य प्रवृत्तियो का अध्ययन। CO5: हिन्दी के सभी आधुनिकवाद, छायावाद, प्रगतिवाद, प्रयोगवाद, अकविता आदि का अध्ययन।

Semester-V

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र काव्य भाषा ओर हिन्दी भाषा	CO1: इस प्रश्न पत्र में काव्य भाषा एवं हिन्दी भाषा का सम्यक ज्ञान विद्यार्थी प्राप्त करेगें। CO2: प्राचीन आर्य भाषाएं वैदिक संस्कृत लौकिक संस्कृत का परिचय प्राप्त होगा। CO3: इस प्रश्न पत्र में विद्यार्थी को पुरानी हिन्दी, मानक हिन्दी एवं शब्द भंडार, देवनागरी लिपि, राष्ट्रभाषा, राजभाषा, संपर्क भाषा का ज्ञान होगा। CO4: पुरानी हिन्दी की अवधारणा और विशेषताओं का अध्ययन। हिन्दी शब्द भंडार के स्रोत का अध्ययन। CO5: देवनागरी लिपि के इतिहास का अध्ययन।
द्वितीय प्रश्न–पत्र भारतीय काव्यशास्त्र तथा आलोचना	CO1: इस प्रश्न पत्र के माध्यम से विद्यार्थी को भारतीय काव्य शास्त्र एवं हिन्दी आलोचना का ज्ञान प्राप्त होगा। CO2: विद्यार्थी को काव्य शास्त्रीय सम्प्रदायों से परिचित कराया जायेगा। CO3: इस प्रश्न पत्र के माध्यम से काव्य शास्त्र (भारतीय) का विशेष ज्ञान प्राप्त होगा। CO4: रसवादी एवं मनोवैज्ञानिक समीक्षा और डॉ0 नागेन्द्र का अध्ययन। भाषिक समीक्षा और डॉ0 रामस्वरूप चतुर्वेदी का अध्ययन। CO5: आचार्य हजारी प्रसाद द्विवेदी की आलोचना।
तृतीय प्रश्न–पत्र प्रयोजन मूलक हिन्दी	CO1: इस प्रश्न पत्र के माध्यम से विद्यार्थी प्रयोजन मूलक हिन्दी से परिचित होगें। CO2: इसमे विद्यार्थी को प्रशासनिक हिन्दी, कार्यालयी हिन्दी एवं परिभाषिक शब्दावली का विशेष ज्ञान प्राप्त होगा। CO3: जनसंचार माध्यमों का ज्ञान भी इससे प्राप्त होगा । CO4: हिन्दी में मीडिया लेखन का अध्ययन। समाचार लेखन और हिन्दी के स्वरूप का अध्ययन। CO5: संपादन कला के सिद्धान्त का अध्ययन।

Semester-VI

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र सामान्य हिन्दी (व्याकरण)	CO1: इस प्रश्न पत्र के माध्यम से विद्यार्थी को हिन्दी व्याकरण का समुचित ज्ञान प्राप्त कराया जायेगा। CO2: हिन्दी के शुद्ध शब्दों एवं वाक्यगत अशुद्धियों का शोधन

	किया जायेगा। CO3: इस प्रश्न पत्र में प्रारूपण, संक्षेपण एवं पत्र लेखन की जानकारी (ज्ञान) भी दिया जायेगा। CO4: वाक्यगत अशुद्धियों का शोधन करना। CO5: वाक्य परिवर्तन का अध्ययन करना।
द्वितीय प्रश्न–पत्र पाश्चात्य काव्य शास्त्र	CO1: इस प्रश्न पत्र में पाश्चात्य काव्य शास्त्र से विद्यार्थियों को परिचित कराया जायेगा। CO2: काव्य के पाश्चात्य लक्षणों का विशेष ज्ञान प्राप्त कराया जायेगा। CO3: क्रोचे के अभिवंजनावाद। CO4: रिचड्र्स का मूल सिद्धांत और सम्प्रेषण का अध्ययन। CO5: नयी समीक्षा का अध्ययन।
तृतीय प्रश्न–पत्र मौखिकी	CO1: सभी प्रश्नपत्रों का विशेष अध्ययन। CO2: किसी भी प्रश्नपत्र से प्रश्न पूछा जा सकता है। CO3: विद्यार्थी को सभी प्रश्नपत्र का ज्ञान कराना।

M.A.[Hindi]	
Programme Outcome (POs)	
PO1	हिन्दी भारत की समस्त भाषाओं की आधार शिला के रूप में है।
PO2	हिन्दी काव्य एवं गद्य का समस्त ज्ञान प्राप्त होगा।
PO3	भारतीय एवं पाश्चात्य काव्य शास्त्र का विशेष अध्ययन।
PO4	भाषा विज्ञान एवं हिन्दी भाषा का ज्ञानार्जन ।
PO5	हिन्दी व्याकरण एवं प्रयोजनमूलक हिन्दी का विशेष ज्ञान ।
Programme Specific Outcome (PSOs)	
PSO1	इस पाठ्यक्रम के माध्यम से विद्यार्थियों को हिन्दी भाषा एवं साहित्य का विशेष ज्ञान प्राप्त होता होगा।
PSO2	विद्यार्थीगण भविष्य में हिन्दी अध्यापक के रूप में अन्य प्रशासनिक पदों पर एवं भारत एवं विदेशों मे अनेक पदों को सुशोभित कर सकेंगें।
PSO3	विद्यार्थीगण नेट/जे0आर0एफ0/सेट की परीक्षा उत्तीर्ण करके शोध कार्य कर सकेगें।
PSO4	इस पाठ्यक्रम के माध्यम से विद्यार्थी उच्च नैतिकता के साथ सुसज्जित एवं लोकसाहित्य एवं सम्पूर्ण भारतीय साहित्य का ज्ञान भी प्राप्त कर सकेगें।
PSO5	छात्र हिन्दी भाषा के मानवीय मूल्यों को अपने जीवन में आत्मसात करेगे।

Course Outcome- M.A.[Hindi]

Semester-I

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र प्राचीन एवं भक्तिकालीन हिन्दी कविता	CO1: इस प्रश्न पत्र में विद्यार्थी प्राचीन एवं भक्ति कालीन हिन्दी काव्य से परिचित होगें। CO2: इस प्रश्न पत्र में प्राचीन एवं भक्ति कालीन काव्य को रखने का मूल्य उद्देश्य प्राचीन एवं भक्ति कालीन काव्य के विभिन्न स्वरूपों से विद्यार्थी को परिचित कराना है। CO3: जायसी के काव्य का विषय। CO4: सूरदास के भ्रमर गीत का विश्लेषण करना। CO5: तुलसीदास के रामचरितमानस के उत्तरकाण्ड को विश्लेषित करना।
द्वितीय प्रश्न–पत्र आधूनिक गद्य साहित्य	CO1: आधुनिक गद्य साहित्य के प्रमुख साहित्यकारों का अध्ययन। CO2: आधुनिक गद्य साहित्य के प्रमुख निबन्धकारों का अध्ययन। CO3: आधुनिक गद्य साहित्य के प्रमुख उपन्यासकारों का अध्ययन। CO4: आधुनिक गद्य साहित्य के प्रमुख कहानीकारों का अध्ययन। CO5: नाटककारों एवं एकांकी लेखकों एवं उनकी कृतियों को समझने एवं उसकी व्याख्या करने में सक्षम।
तृतीय प्रश्न–पत्र आदिकालीन एवं भक्तिकालीन हिन्दी साहित्य	CO1: हिन्दी साहित्य का दर्शन, लेखन परम्परा का ज्ञान। CO2: प्रमुख इतिहास लेखकों और उनके ग्रन्थों की विशेषताएं के विषय में ज्ञान। CO3: प्रमुख इतिहास लेखकों उनके ग्रन्थों के महत्व, समस्याएं एवं समाधान के विषय में ज्ञान। CO4: हिन्दी सन्त, सूफ़ी काव्यों की विशेषताएं एवं महत्व की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम। CO5: कृष्ण एवं राम काव्यों की विशेषताएं एवं महत्व की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम।
वैकल्पिक चतुर्थ प्रश्न–पत्र 1. भाषा विज्ञान एवं हिन्दी भाषा	CO1: हिन्दी भाषा विज्ञान की परिभाषा के विषय में ज्ञान। CO2: हिन्दी भाषा स्वरूप के विषय में ज्ञान। CO3: हिन्दी भाषा विज्ञान में स्वन प्रक्रिया के विषय में ज्ञान। CO4: हिन्दी भाषा विज्ञान में व्याकरण के विषय में ज्ञान। CO5: हिन्दी भाषा विज्ञान में अर्थ विज्ञान की परिभाषा एवं साहित्य के विषय में ज्ञान।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 2. भाषा शिक्षण	CO1: भाषा शिक्षण के विविध आयामों, शिक्षण विधियों, बोधन क्षमता के विषय में ज्ञान। CO2: वाचन क्षमता, लेखन दक्षता, अभिवक्ति दक्षता के विषय में ज्ञान। CO3: सामाजिक एवं सांस्कृतिक संदर्भ के विषय में ज्ञान। CO4: भाषा प्रयोगशाला में उपयोग किये जाने वाले प्रमुख

	उपकरणों के विषय में ज्ञान। CO5: मूल्यांकन पद्धतियों के विषय में ज्ञान।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 3. राज भाषा	CO1: राजभाषा का आशय, महत्व, कार्यक्षेत्र के विषय में ज्ञान। CO2: सवैधानिक स्थिति, प्रयोग की प्रगति के विषय में ज्ञान। CO3: राजभाषा के समस्याएं समाधान के विषय में ज्ञान। CO4: भविष्य के विषय में जानकारी एवं चर्चा करने में सक्षम होंगे। CO5: राजभाषा एवं राष्ट्रभाषा में अन्तर स्पष्ट करने में सक्षम होंगे।
पंचम प्रश्न–पत्र कौशल विकासः प्रयोजन मूलक हिन्दी	CO1: भाषा शिक्षण के विविध आयामों, शिक्षण विधियों, बोधन क्षमता के विषय में ज्ञान। CO2: वाचन क्षमता, लेखन दक्षता, अभिवक्ति दक्षता के विषय में ज्ञान। CO3: सामाजिक एवं सांस्कृतिक संदर्भ के विषय में ज्ञान। CO4: भाषा प्रयोगशाला में उपयोग किये जाने वाले प्रमुख उपकरणों के विषय में ज्ञान। CO5: मूल्यांकन पद्धतियों के विषय में ज्ञान।
षष्ठम् प्रश्न पत्र सामान्य हिन्दी	CO1: सामान्य हिन्दी के व्याकरण की बारीकियों से परिचय कराना। CO2: सामान्य हिन्दी के वर्णमाला, शब्द रचना, सन्धि, समास से परिचय कराना। CO3: सामान्य हिन्दी के उपसर्ग, प्रत्यय, संज्ञा, सर्वनाम से परिचय कराना। CO4: सामान्य हिन्दी के क्रिया–विशेषण, लिंग, वचन, कारक, विभक्ति, विराम चिन्ह से परिचय कराना। CO5: सामान्य हिन्दी के तत्सम, तदभव, वर्तनी, विलोम एवं पर्यायवाची शब्दों का प्रयोग करने में सक्षम।

Course Outcome
Semester-II

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र छायावादी हिन्दी काव्य	CO1: छायावादी युगीन काव्य का सामान्य परिचय जानेगा। CO2: जय शंकर प्रसाद के काव्य का सामान्य परिचय जानेगा। CO3: सुमित्रानंदन पंत के काव्य का सामान्य परिचय जानेगा। CO4: सूर्यकान्त त्रिपाठी निराला के काव्य का सामान्य परिचय जानेगा। CO5: महादेवी वर्मा आदि की रचनाओं की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम होगा।
द्वितीय प्रश्न–पत्र रीति कालीन एवं आधूनिक हिन्दी	CO1: मध्ययुगीन एवं आधुनिक युगीन रचनाओं को समझने एवं आलोचनात्मक व्याख्या करने में सक्षम होगा।

साहित्य का इतिहास	CO2: रीतिकालीन रचनाओं को समझने एवं आलोचनात्मक व्याख्या करने में सक्षम होगा। CO3: आधुनिक कालीन रचनाओं को समझने एवं आलोचनात्मक व्याख्या करने में सक्षम होगा। CO4: द्विवेदी युगीन रचनाओं को समझने एवं आलोचनात्मक व्याख्या करने में सक्षम होगा। CO5: छायावादी रचनाओं को समझने एवं आलोचनात्मक व्याख्या करने में सक्षम होगा।
तृतीय प्रश्न–पत्र मौखिकी एवं प्रायोगिक	CO1: कार्यशाला का सामान्य परिचय जानेगा। CO2: संगोष्ठी का महत्व जानेगा। CO3: शैक्षिक भ्रमण से वाह्य जानकारी अर्जित करेगा। CO4: अधिन्यास से विषय का गहन परिचय जानेगा। CO5: मौखिकी के माध्यम से तार्किक क्रिया में पारंगत होगा।
वैकल्पिक चतुर्थ प्रश्न–पत्र 1. पालि	CO1: इस प्रश्न पत्र के माध्यम से विद्यार्थी पालि साहित्य का विशेष अध्ययन करेंगे एवं पालि साहित्य से परिचित होगे। CO2: पाली जातकावली से परिचित होंगे। CO3: धम्म पद से परिचित होंगे। CO4: पालि व्याकरण की समझ से परिचित होंगे। CO5: पालि से हिन्दी के प्राचीन स्वरूप का भी ज्ञान होगा।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 2. अपभ्रंश	CO1: इस प्रश्न पत्र के माध्यम से विद्यार्थी अपभ्रंश के व्याकरण का प्रयोग करने में सक्षम होगा। CO2: अपभ्रंश छन्दों के वर्गीकरण का प्रयोग करने में सक्षम होगा। CO3: स्वयंभू के रचनाओं की व्याख्या से परिचित होगा। CO4: पुष्पदंत के रचनाओं की व्याख्या से परिचित होगा। CO5: जयंदू के रचनाओं की व्याख्या से परिचित होगा।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 3. लोक साहित्य	CO1: प्रमुख लोक साहित्यों एवं उनके वर्गीकरण को जानेगा। CO2: प्रमुख लोक नाट्य एवं उनके वर्गीकरण को जानेगा। CO3: प्रमुख लोक कथाओं एवं गाथाओं एवं उनके वर्गीकरण को जानेगा। CO4: प्रमुख लोक नृत्य एवं एवं उनके वर्गीकरण को जानेगा। CO5: प्रमुख लोक संगीत के विषय में ज्ञान प्राप्त करेगा।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 4. जनपदीय भाषा साहित्य	CO1: भोजपुरी भाषा का इतिहास के विषय में जानकारी। CO2: भोजपुरी भाषा प्रमुख रचनाकार के विषय में जानकारी। CO3: भोजपुरी भाषा प्रमुख रचनाकार के विषय में जानकारी। CO4: अवधी भाषा का इतिहास, प्रमुख रचनाकार के विषय में जानकारी। CO5: अवधी भाषा के रचनाकारों के कृतियों के विषय में जानकारी।
पंचम प्रश्न–पत्र कौशल विकासः भाषा विज्ञान एवं	CO1: भाषा शिक्षण के विविध आयामों, शिक्षण विधियों, बोधन क्षमता, वाचन क्षमता को समझने में सक्षम होंगे। CO2: भाषा शिक्षण के आयामों, लेखन दक्षता, अभिवक्ति दक्षता को

हिन्दी भाषा	समझने में सक्षम होंगे। CO3: भाषा शिक्षण के आयामों, सामाजिक एवं सांस्कृतिक संदर्भ के विषय में ज्ञान को समझने में सक्षम होंगे। CO4: मनोभाषा विज्ञान एवं संज्ञानात्मक भाषा विज्ञान एवं द्वितीय भाषा शिक्षण शिक्षण को समझने में सक्षम होंगे। CO5: विदेशी भाषा शिक्षण लिपि एवं लिपि के विकास को समझने में सक्षम होंगे।
षष्ठम् प्रश्न पत्र लोक साहित्य	CO1: प्रमुख लोक साहित्यों एवं उनका वर्गीकरण के विषय में ज्ञान। CO2:लोक नाट्य, लोक कथाओं एवं गाथाओं के विषय में ज्ञान। CO3:लोक नृत्य एवं संगीत के विषय में ज्ञान। CO4: प्रमुख लोक कवियों की जीवनियों, लोक भाषा के विषय में ज्ञान। CO5:लोक सुभाषित , मुहावरे, कहावतें एवं पहेलियों का ज्ञान और समझने में सक्षम होंगे।

Course Outcome
Semester-III

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र छायावादोत्तर एवं स्वातंत्रयोत्तर हिन्दी काव्य	CO1: छायावादोत्तर एवं स्वातंत्रयोत्तर हिन्दी कवियों की रचनाओं की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम होंगे। CO2: हरिवंश राय बच्चन एवं नवीन की रचनाओं की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम होंगे। CO3: अज्ञेय एवं धूमिल की रचनाओं की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम होंगे। CO4: नागार्जुन एवं केदार नाथ सिंह की रचनाओं की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम होंगे। CO5: केदार नाथ अग्रवाल एवं गिरिजा कुमार माथुर आदि की रचनाओं की सप्रसंग एवं आलोचनात्मक व्याख्या करने में सक्षम होंगे।
द्वितीय प्रश्न–पत्र आधूनिक भारतीय इतिहास	CO1: आधुनिक भारतीय इतिहास का परिचय। CO2: मूल्यो की अभिव्यक्ति, अध्ययन और उनकी समस्याओं के विषय में सक्षम होंगे। CO3: आधुनिक भारतीय इतिहास के बंगला के प्रसिद्ध रचनाकारों एवं उनकी कृतियों के विषय में सक्षम होंगे। CO4: आधुनिक भारतीय इतिहास के उड़िया के प्रसिद्ध रचनाकारों एवं उनकी कृतियों के विषय में चर्चा करने में। CO5: आधुनिक भारतीय इतिहास के मराठी के प्रसिद्ध रचनाकारों एवं उनकी कृतियों के विषय में चर्चा करने में सक्षम होंगे।
तृतीय प्रश्न–पत्र प्रयोजन मूलक	CO1: हिन्दी के विभिन्न रूपों की जानकारी एवं कार्यालयी हिन्दी का प्रयोग करने में।

हिन्दी एवं जनसंचार	CO2: कम्प्यूटर, इंटरनेट, वेब पब्लिसिंग, लिंक की जानकारी। CO3: ब्राउजिंग, ई–मेल भेजने, हिन्दी फान्ट की जानकारी। CO4: हिन्दी सोफ्टवेयर एवं पैकेज की जानकारी एवं प्रयोग करने में। CO5: पत्रकारिता एवं मीडिया लेखन में पारंगत।
वैकल्पिक चतुर्थ प्रश्न–पत्र 1. हिन्दी आलोचना साहित्य	CO1: हिन्दी आलोचना का स्वरूप, ऐतिहासिक विकास क्रम, आलोचनात्मक अवधारणाएं एवं पद्धतियों के विषय में ज्ञान प्राप्त करेंगे। CO2: हिन्दी आलोचना की दृष्टि से आ0 रामचन्द्र शुक्ल के विषय में ज्ञान प्राप्त करेंगे। CO3: हिन्दी आलोचना की दृष्टि से आ0 हजारी प्रसाद द्विवेदी के विषय में ज्ञान प्राप्त करेंगे। CO4: हिन्दी आलोचना की दृष्टि से आ0 नन्द दुलारे बाजपेयी के विषय में ज्ञान प्राप्त करेंगे। CO5: हिन्दी आलोचना की दृष्टि से डॉ0 नगेन्द्र एवं डॉ0 राम बिलास शर्मा की कृतियों की आलोचनात्मक व्याख्या करने में सक्षम हो सकेंगे।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 2. नाटक और रंगमंच	CO1: इस प्रश्न पत्र में नाटक एवं रंगमंच का विस्तृत परिचय दिया जायेगा। CO2: नाटक एवं रंगमंच के स्वरूप उत्पत्ति का विस्तृत परिचय दिया जायेगा। CO3: नाटक एवं रंगमंच के विधागत वैशिष्ट्य की जानकारी दी जायेगी। CO4: हिन्दी नाटक एवं रंगमंच का संक्षिप्त इतिहास एवं विकास क्रम तथा विभिन्न प्रतिनिधि रचनाकारों की जानकारी दी जायेगी। CO5: हिन्दी नाटक एवं रंगमंच कृतियों की जानकारी दी जायेगी।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 3. हिन्दी उपन्यास	CO1: हिन्दी उपन्यास के इतिहास से परिचित होगा। CO2: उपन्यास की विभिन्न शैलियों से परिचित होगा। CO3: प्रतिनिधि उपन्यासकारों की कृतियों की व्याख्या करने में सक्षम होगा। CO4: प्रतिनिधि उपन्यासकारों की हिन्दी उपन्यास कला की व्याख्या करने में सक्षम होगा। CO5: प्रतिनिधि उपन्यासकारों की समकालीन प्रासांगिकता व्याख्या करने में सक्षम होगा।
पंचम प्रश्न–पत्र कौशल विकासः सूचना प्रौद्योगिकी एवं हिन्दी	CO1: सूचना प्रौद्योगिकी के विभिन्न रूपों की जानकारी एवं प्रयोग करने में सक्षम होंगे। CO2: कम्प्यूटर, इंटरनेट, वेब पब्लिसिंग, लिंक की जानकारी एवं प्रयोग करने में सक्षम होंगे। CO3: ब्राउजिंग, ई–मेल भेजने, हिन्दी फान्ट की जानकारी एवं प्रयोग करने में सक्षम होंगे। CO4: हिन्दी सोफ्टवेयर एवं पैकेज की जानकारी एवं प्रयोग करने

	में सक्षम होंगे। CO5: पत्रकारिता एवं मीडिया लेखन में पारंगत होंगे।
षष्ठम् प्रश्न पत्र व्यवहारिक हिन्दी	CO1: पत्र लेखन में पारंगत होंगे। CO2: प्रारूपण में पारंगत होंगे। CO3: टिप्पणी में पारंगत होंगे। CO4: संक्षेपणय प्रतिवेदन में पारंगत होंगे। CO5: कार्यालयी हिन्दी का प्रयाग करने में पारंगत होंगे।

Semester-IV

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र स्वातंत्रयोत्तर हिन्दी गद्य साहित्य	CO1: स्वातंत्रयोत्तर हिन्दी गद्य साहित्य के रचनाकारों सप्रसंग एवं आलोचनात्मक व्याख्या करने में पारंगत होंगे। CO2: स्वातंत्रयोत्तर हिन्दी गद्य साहित्य के निबन्ध लेखकों के सप्रसंग एवं आलोचनात्मक व्याख्या करने में पारंगत होंगे। CO3: स्वातंत्रयोत्तर हिन्दी गद्य साहित्य के उपन्यासकारों के सप्रसंग एवं आलोचनात्मक व्याख्या करने में पारंगत होंगे। CO4: स्वातंत्रयोत्तर हिन्दी गद्य साहित्य के कहानीकारों के सप्रसंग एवं आलोचनात्मक व्याख्या करने में पारंगत होंगे। स्CO5: वातंत्रयोत्तर हिन्दी गद्य साहित्य के निबन्ध लेखकों के सप्रसंग एवं आलोचनात्मक व्याख्या करने में पारंगत होंगे।
द्वितीय प्रश्न–पत्र काव्यशास्त्र एवं साहित्य सिद्धान्त	CO1: भारतीय काव्यशास्त्र का इतिहास, रस एवं ध्वनि सिद्धान्त, अलंकार, रीति सम्प्रदाय, वक्रोक्ति सिद्धान्त, औचित्य सिद्धान्त की अवधारणा एवं वर्गीकरण की व्याख्या करने में सक्षम होंगे। CO2: प्लेटो, अरस्तु में प्रयुक्त मुख्य सिद्धान्तों की अवधारणाओं की समीक्षा करने में सक्षम होंगे। CO3: लोजाइनस, वड्र्सवर्थ में प्रयुक्त मुख्य सिद्धान्तों की अवधारणाओं की समीक्षा करने में सक्षम होंगे। CO4: कालरिज, क्रोचो में प्रयुक्त मुख्य सिद्धान्तों की अवधारणाओं की समीक्षा करने में सक्षम होंगे। CO5: टी0 एस0 एलिएट एवं आई0 ए0 रिचड्र्स में प्रयुक्त मुख्य सिद्धान्तों की अवधारणाओं की समीक्षा करने में सक्षम होंगे।
तृतीय प्रश्न–पत्र मौखिकी	CO1: पाठ्यक्रम को मौखिक रूप से अभिव्यक्त करने में सक्षम।
वैकल्पिक चतुर्थ प्रश्न–पत्र 1. पत्रकारिता प्रशिक्षण	CO1: पत्रकारिता के विभिन्न स्वरूपों और प्रकार की समीक्षा करने में सक्षम होंगे। CO2: समाचार पत्रों के विभिन्न स्तम्भों की योजना बनाने में सक्षम होंगे। CO3: इलेक्ट्रानिक मीडिया की पत्रकारिता, लोक सम्पक एवं विज्ञापन प्रकाशित करने में सक्षम होंगे। । CO4: प्रसार भारती तथा सूचना प्रौद्यागिकी की समीक्षा करने में सक्षम होंगे।

	CO5: प्रेस सम्बन्धी प्रमुख कानून तथा आचार संहिता एवं प्रजातन्त्र व्यवस्था में चौथे स्तम्भ के रूप में पत्रकारिता के दायित्यों का बोध।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 2. अनुवाद विज्ञान	CO1: अनुवाद का अर्थ एवं परिभाषा को जान सकेगा। CO2: विज्ञान, कोडीकरण की प्रक्रिया एवं महत्व को जान सकेगा। CO3: अनुवादक तथा अनुवाद के प्रकार, सीमाओं का ज्ञान प्राप्त करेगा। CO4: भारतीय परम्पराओं की समीक्षा करने में सक्षम होगा। CO5: पाश्चात्य परम्पराओं की समीक्षा करने में सक्षम होगा।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 3. पाठालोचन	CO1: पाठ की अवधारणा की जानकारी प्राप्त करेगा। CO2: पठन पद्धति से अवगत होगा। CO3: पाठक के प्रकार को जान सकेगा। CO4: पाठानुसंधान की समस्याए को जान सकेगा। CO5: पाठालोचन की विभिन्न पद्धतियों का ज्ञान प्राप्त कर सकेगा।
वैकल्पिक : चतुर्थ प्रश्न–पत्र 4. साहित्यिक निबन्ध अथवा लघु शोध प्रबन्ध	CO1: साहित्यिक निबन्ध की जानकारी प्राप्त करेगा। CO2: लघु शोध प्रबन्ध के प्रारूपों की जानकारी मिलेगी। CO3: लेखन की प्रक्रिया की विस्तृत जानकारी प्राप्त करेगा। CO4: लेखन के प्रक्रिया को प्रयोग करने में सक्षम हो सकेगा। CO5: लेखन की प्रक्रिया का साहित्य निबन्ध में लघु शोध प्रबंध के रूप में प्रयोग कर सकेंगे।
पंचम प्रश्न–पत्र कौशल विकासः आधूनिक हिन्दी साहित्य	CO1: आधुनिक हिन्दी साहित्य में आधूनिकीकरण की जानकारी। CO2: लोक से जन का संक्रमण एवं हिन्दी भाषा के क्षेत्र की जानकारी मिलेगी। CO3: सांस्कृतिक पूंजी एवं ईकाई के रूप में भारत की समीक्षा में सक्षम होगा। CO4: सांस्कृतिक पूंजी एवं ईकाई के रूप में भारत की व्याख्या करने में सक्षम होगा। CO5: हिन्दी भाषा के क्षेत्र में सांस्कृति पूंजी एवं इकाई के रूप में भारतीय रहन–सहन की व्याख्या कर सकेंगे।
षष्ठम् प्रश्न पत्र जनसंचार एवं हिन्दी पत्रकारिता	CO1: जनसंचार माध्यमों के स्वरूप की जानकारी प्राप्त होगी। CO2: जनसंचार माध्यमों के विस्तार एवं प्रकार की जानकारी प्राप्त होगी। CO3: जनसंचार माध्यमों के भाषिक प्रकृति की समीक्षा एवं व्याख्या करने में सक्षम होगा। CO4: समाचार पत्रकारिता के मूलतत्वों को जान सकेगा। CO5: प्रजातंत्र में पत्रकारिता के दायित्यों का बोध कर सकेगा।

Programme Outcome (POs)	
PO1	Realization of human value
PO2	Responsible and dutiful citizen
PO3	Sense of social service
PO4	Critical temper
PO5	Creative ability
Programme Specific Outcome (PSOs)	
PSO1	Gain knowledge in textile production techniques, fashion and trends
PSO2	Acquire knowledge, skill and attitude to work with the communities
PSO3	Achieve desirable change in the development and empowerment of rural people
PSO4	To acquire the skill in different activities like printing, dying, batik and clothing construction

Course Outcome –B.A. [Home Science]

Semester-I

After completion of the Course the student will be able to:	
Paper-I (Applied Life Science)	**CO1:** To know about Structure of Cell and its organs.
	CO2: Have knowledge about Musculoskeletal system , Cardiovascular system , Gastrointestinal system and Respiratory system.
	CO3: To know about Excretory and Nervous system. CO4: Knowledge about Reproductive system of Humans. CO5: To know about role of various harmful and beneficial microorganisms.
Paper – II (Fundamental of Art and Design)	**CO1:** Able to understand elements and principles of art and design like Line, Size, Form, Texture, Space etc.
	CO2: Develop skills in creating designs and making art objects.
	CO3: Knowledge of Colour scheme and Colour Classification.
	CO4: Develop and will be able to apply the principles of art in design in traditional and contemporary art. CO5: Able to Decorating Home and Floor with Alpana and Rangoli.

Semester-II

After completion of the Course the student will be able to:	
Paper- I (Health Care)	**CO1:** Understand the concept of health and will be able to realize the health problems of the community.
	CO2: Be aware of reason, symptoms and remedies major diseases such as small pox. Chicken pox, Khasra, whooping cough, diphtheria, tetanus, polio, hepatitis, TB, Malaria, Cholera typhoid, and AIDS.
	CO3: Be aware of Immunity, Antibiotic, classification of Immune system, schedule of immunization, various vaccinations against infectious diseases.
	CO4: Be aware of primary and Public Health centre (PHCS), Government and non-government like WHO, UNICEF, RED CROSS, ICDS and able to suggest remedial measures to the

	nearby Community. CO5: Able to suggest remedial measures to the nearby Community.
Paper – II (Introduction to Resource Management)	**CO1:** Will be aware of management in the family and develop an ability to recognise the importance of wise use of resources.
	CO2: Will have knowledge of Importance of planning, controlling, evaluation in Management process
	CO3: Will be aware of the Family life cycle & stages. CO4: Will be aware of the Family life cycle & stages. CO5: Able to know about demands of resources in different life cycles and their characteristics.

Semester-III

After completion of the Course the student will be able to:	
Paper-I (Fundamentals of Food and Nutrition)	**CO1:** Understand the functions of food and the role of various nutrients and their requirements and the effects of deficiency and excess like that of Minerals and Vitamins.
	CO2: Be aware of the structure, composition, nutritional contribution and selection of different food stuff like Macronutrients and Micronutrients, Importance of Fibers and Water.
	CO3: Be familiar with the different methods of cooking, their advantages and disadvantages and their effects on nutritive value and processes of Improving Nutritional quality of foods. **CO4**: Able to know the Importance of Fibers and Water. **CO5:** Be familiar with the different methods of cooking, their advantages and disadvantages and their effects on nutritive value and processes of Improving Nutritional quality of foods.
Paper-II (Mother Craft and Child Welfare)	**CO1:** Be able to Understand the reproductive system of man and women body.
	CO2: Be aware of common disease of children and steps for improving habits in children:
	CO3: Be aware of Pregnancy Symptoms, Discomforts and care in pregnancy the birth process. **CO4:** Be aware of Pregnancy Symptoms, Discomforts and care in pregnancy the birth process. **CO5**: Knowledge about child rearing.

Semester-IV

After completion of the Course the student will be able to:	
Paper-I (Human Nutrition)	**CO1:** To understand the current trends in nutrition like balanced diet, Meal Planning, Nutritional Requirement. **CO2:** Able to do diet plans for Infants, adults and Old age. **CO3**: Able to know about different types of infectious disease. **CO4**: gain knowledge about nutritional status and nutritional requirements. **CO5:** Able to know about major nutrients
Paper-II (Child	**CO1:** Knowledge about growth and development. **CO2:** Be aware of common disease of children .

Development)	**CO3:** Able to know the formation of good habits in children. **CO4:** Able to know developmental task. **CO5**: Able to know about different types of plays

Semester-V

After completion of the Course the student will be able to:	
Paper-I (Clothing and Textile)	**CO1:** Be acquainted with the knowledge of different Textiles fibres like Cotton, Wool, Silk, Rayon, Synthetic and their performances. **CO2:** to know about different textile finishes and Special purpose finishes. **CO3:** Will develop skill of weaving and knitting. **CO4**: Able to know Clothing construction. **CO5:** Able to know about Laundry agent and equipment
Paper-II (Extension Education)	**CO1:** Be able to understand the concept & Importance of Extension Education. **CO2:** to know about Extension training. **CO3**:Well known to use of Audio visual Aids. **CO4:** to develop skills about Management and administration and Guidance and counselling through extension education. **CO5**: Knowledge about formal and informal education
Paper-III (Rural Sociology)	**CO1:** Be acquainted with the knowledge of rural culture for better development. **CO2:** Be aware of the problems and barriers of rural life for better future development. **CO3**: able to know about small scale industries and cottage industries. CO4:Will have knowledge about need and Importance of Rural education. CO5: Knowledge about the Goals of Rural Education

Semester-VI

After completion of the Course the student will be able to:	
Paper-I (Clothing Construction)	**CO1:** Acquire the skills of various Construction Techniques like measurement, drafting, cutting, layout, Sewing, finishing- their meaning and importance. **CO2:** Acquire the skills of Fashion design. **CO3**: Knowledge about Selection of fabrics, Maintenance and storage of fabric. **CO4**: methods of laundry and process of Dyeing and Printing. **CO5:** develop skills in creating design and making garments
Paper-II (Communication Process in Development)	**CO1:** Be aware of the concept, meaning and importance, function and problem of communication. **CO2:** Have knowledge about the methods of approaching people. **CO3:** Be aware of Audio visual AIDS and the process of communication.

	CO4: Able to know the use of chart and poster. **CO5**: Knowledge about Demonstration
Paper-III (Women Welfare)	**CO1:** Be acquainted with the knowledge of various government schemes for family and women welfare. **CO2:** Be innovative in the use of existing services to empower women and for community development. **CO3:** to know about the problems of rural women and improve the ideas to short out the problem themselves. **CO4**: Able to know the contribution of work of women in rural development. **CO5**: Knowledge about NGOs

Program Outcomes of Master of Arts (M.A.[Home Science]) (PO,s)

PO1	The Program aim at making the students self-reliant with necessary proficiency for a wide variety of career with entrepreneurial skills and placement.
PO2	The Program also empowers the students to appear for various competitive examination or research program of their choice
PO3	The M.A. Program enables the students to acquire the knowledge with human values farming the base to deal with various problems in life with courage and humanity
PO4	The students acquire in depth knowledge in the field of social, Literature and humanities
PO5	Practical training/exposure through field visit, project work, expert lectures, demonstration, workshop and seminar gives hand-on experience to students

Programme Specific Outcome (PSOs)

PSO1	Assess the health status of population and their related determinants of health and illness
PSO2	Produced researchers with scientific and critical thinking, as well as disciplinary knowledge required for professional jobs in the academy or in other fields
PSO3	Develop knowledgeable and skilled human resources which is employable at the various sectors related to Home Science
PSO4	Apply critical thinking to analyze and problem solve the developmental concerns from birth to death.
PSO5	Integrate the creativity, innovation or entrepreneurship in ways that produce value

Course Outcome - M.A. [Home Science]
Semester-I

After completion of the Course the student will be able to:	
Paper-I (Food and Science)	**CO1:** Know about the elements of food science. **CO2:** able to understand the physio-chemical properties of foods, constituents of Food, Food spoilage and techniques of Food preservation, check food adulteration etc.

	CO3: To acquire knowledge about microbial intoxication and infections. CO4: Awareness about basics of microbiology. CO5: Able to understand about constituents of food
Paper-II (Human Development)	**CO1:** Understanding the beginning process of life. CO2: Be aware of the stages of Human Development, Determinants, and methods of child study and child development process. **CO3:** To acquire knowledge about birth process, types of birth and complications related to pregnancy **CO4**: to know about different types of changes like social, physical, cognitive, emotional during infancy to Adolescent. CO5: to know about different types of changes like social, physical, cognitive, emotional during infancy to Adolescent.
Paper-III (Consumer Economics)	**CO1:** Will be able to understand consumer, consumer rights and responsibilities, Protection law and the factor influencing standard of living **CO2:** Able to know how to take wise decision and the process of decision making **CO3:** Able to know about consumer problems like adulteration, faulty weight and measure, pricing and other malpractices in the market. CO4: Able to know about consumer living standard CO5: Able to know about consumer"s wants and their charcteristics
Paper-IV (a) (Theory of Human Development)	**CO1:** Will be able to understand Principles and concept of development and various theories. **CO2:** Demonstrate skills in using tools to assess human behaviour. **CO3:** Relate the principles of human development with self, family and society CO4: Co-relate the practical and theory CO5: To know about different learning theories
Paper-IV (b) Home Management	**CO1:** Will have the knowledge of home management, role, its Obstacles, Factors motivating home and decision making and Lifestyle, types of family, stages of family life cycle. **CO2:** .Be committed as responsible consumers and able designers. **CO3:** Will be able to know about their goals, values, standard and lifestyle. CO4: Enable the students to manage the time in different stages of life cycle. CO5: To equip the students with skill and techniques for

	simplification of work
Paper-IV (c) Energy Management & Household Equipment	**CO1:** Will understand household energy management. CO2: able to know about household equipment management and appliances. **CO3:** will able to know about technology of alternate sources of energy **CO4:** Will know about energy consumption pattern and energy resources of india. CO5: will able to know about uses and care of equipments.
Paper-V Practical (Skill Development)	**CO1:** Will acquire practical skills related to meal planning for different occasion. **CO2:** Will be able to Home Preparation of Jam and Jelly. CO3: will able to know about Recipes based on various food groups. CO4: will able to do work in group CO5: will able to creat different extention education related materials.
Paper-VI (Extension Techniques and Programmes)	**CO1:** Will be aware of the concept and Importance of of Extension Education, Methods of communication and Importance of Adult Education. **CO2:** To enable the students to select the appropriate approach and techniques of communication. **CO3**: to understand the importance and process of planning and management in extension. CO4: Acquire knowledge, skill and attitude to work with the communities CO5:Enhance people's capacity for social functioning towards better quality of life

Semester-II

After completion of the Course the student will be able to:	
Paper-I (Education and Communication for Rural Development)	**CO1:** Be acquainted with the knowledge of the communication process, recent advances in communication and diffusion and will acquire necessary communication skills.
	CO2: Be aware of the concept of education, Goals, Need and importance of rural education. **CO3**: To acquire the knowledge regarding the types of rural education, Programme Planning, Communication and its problems. CO4: To identify the problems occurring in communication CO5: To enable the students to select the appropriate approach and techniques of communication
Paper-II (Human Nutrition)	**CO1:** Will be able to understand the current trends in nutrition, functions, deficiencies and toxicity of different nutrients. **CO2:** will be acquainted about nutritional requirement in special conditions. **CO3**: Understand the role of food and nutrition for the welfare of the community

	CO4: Use the knowledge for the health & community. CO5: Develop nutrition awareness skill & counseling skill.
Paper-III (Diet Therapy)	**CO1:** Be acquainted with the knowledge of physiological changes and nutritional requirements during various stages of life cycle. **CO2:** To know about new concepts in dietary management of various disorders and diseases, **CO3**: To know about nutritional status and its Assessment , Meal planning , Therapeutic Diets and its Classification CO4: Know factors influence dietary practices Of individual. CO5: Able to prevent the disease through diet therapy.
Paper-IV (a) (Adolescence and Youth)	**CO1:** Be aware of Meaning and definition of Adolescent, Characteristics of Adolescent, Development, Adjustment, Problems and Guidance required for Adolescent. **CO2:** .Will be able to manage life crisis at every stage of life span. **CO3**: Able to develop a positive awareness of the self and social adjustment CO4:Able to know about growth and development CO5: Able to handle problems themselves
Paper-IV (b) (Community Health Management)	**CO1:** Understand the concept of health and health indices popularly used.
	CO2: Be able to the health problems of the community and scientific intervention.
	CO3: Be aware of the supportive services and programmes for community health management, Personal hygiene, Health administrative set up, Role of NGOs. National and International health agencies and Health Surveys. CO4: Understanding the relationship of man with the environment and help them change his attitude for more positive, proactive, eco-friendly and sustainable Lifestyles CO5:Awareness for hygienic practices.
Paper-IV (c) (Consumer Issue and Challenges)	**CO1:** Acquainted about various consumer issues related to products and services in rural and urban context. **CO2:** To know about Consumer movement, Markets and Market distribution channels and Consumer welfare.
	CO3: Will gain an ability to Identify problems of rural /urban consumers. CO4:Understanding different markets structure in marketing system CO5: Able to know about consumer protection law, rights

	and responsibilities
Paper-V Practical (Skill Development)	**CO1:** Able to express matters related to the course orally. **CO2**: Able to control many kind of disease in primary stage with the help of therapeutic modifications of diet CO3: Aable in dietary management of various diseases CO4: Able to do work in team or group CO5: Use knowledge practically
Paper-VI (Nutrition and Immunity)	**CO1:** Will be able to understand the importance of various nutrients in maintaining and improving the immunity of individuals. **CO2:** Knowledge about Immunity , Regulation of immunity CO3: Knowledge about Effect of malnutrition on immunity. **CO4:** Able to know about role of vitamins in immune functions and Probiotics and Antioxidants. CO5: Able to diagnose sign & symptoms of various diseases

Semester-III

After completion of the Course the student will be able to:	
Paper-I (Family Resource Management)	**CO1:** Be acquainted with meaning and concepts, processes and significance of management. **CO2**: To get familiar with the concept of home management and its role in family, Factor motivating Management and the management process,
	CO3: Have knowledge and understand about the Resources in the family, its Management, Family budget, its advantages, types of Savings and Investments. CO4: Comprehended the techniques for money management CO5: To develop the ability among students for energy management in order to avoid fatigue
Paper-II (Textile Chemistry)	**CO1:** Be acquainted with the knowledge of polymer and chemistry of textiles fibres, structure-property relations of textile fibres and recent development in fibres. **CO2:** Able to know the process of Weaving, Clothing construction and Finishes. **CO3:** Get experience in advance textile fabrication techniques in weaving, knitting and non woven CO4:To abreast students with recent fashion trends CO5: To acquire knowledge regarding different methods of finishes
Paper-III (Research Method)	**CO1:** Understand the meaning and importance of research, research procedures. **CO2**: To develop skills in designing and executing research, Importance, characteristics and ways of stating hypothesis, Research problem, Sampling. **CO3**: knowledge about Data analysis, documentation and presentation of the research report.

	CO4: To understand the nature, scope and selection of problem CO5: To prepare, report and deliver an effective presentation
Paper-IV (a) Home Economics	**CO1:** Have knowledge of consumer protection for rational consumer behaviour, **CO2**: Able to know about types of Demands, Utility, Consumer surplus, Market and Price. CO3: Understand working to a budget with goal CO4:Understand wise use of money CO5: Understand Financial Decision making
Paper-IV (b) Environmental Issues and Challenges	**CO1:** Be exposed to global environmental issues and strategies to maintain ecological balance in micro and macro environment. **CO2**: Able to know about the relationship between technology and environment CO3:Knowledge of environmental factors and pollution issues CO4:Getting information about climate change, Global warming, Acid rain, Green house effect, Ozone, layer depletion. CO5:Getting information about Environment Protection Acts.
Paper-IV (c) Advance Dyeing and Printing	**CO1:** Will be aware of dyeing and its application, different methods of printing. CO2: able to know about application of technology to develop technical competency in printing.
	CO3: Gain in-depth knowledge of Colours and its classification and types. CO4: Able to know about chemistry of dyes and pigments, uses of Mordants. CO5: Able to know about advance dying and printing.
Paper-V Practical (Skill Development)	**CO1:** Acquire practical skill for testing textile fibres. CO2: Able to know about Weaving, knitting, Drafting and making paper pattern. **CO3:** Will be able to know construction technique CO4:Develop ability to prepare garments CO5: Develop ability of Synopsis formation.
Paper-VI (Food Product Development)	**CO1:** Will be aware of the concept and process of product development, their sensory evaluation and quality control. **CO2**: Apply skill based knowledge in food industry CO3: Impart knowledge towards entrepreneurship opportunities. CO4: Able to develop various nutritionally enrich □ Product. CO5: To develop creative & innovative products

Semester-IV

After completion of the Course the student will be able to:

Paper-I (Apparel Design and Construction)	**CO1:** Acquire in-depth knowledge of style reading pattern, making and garment construction techniques, application of advance patterns for obtaining perfect garment.
	CO2: Will be aware of Applied art, Dyeing process, embroidery works in India, Fashion cycle and fashion trends. **CO3:** To inculcate expertise knowledge about laundry Equipments and Laundry agents Stain removing methods. CO4 : To enable the students to understand the factors affecting the family clothing CO5: To develop merchandising attitude among students and abreast them with current fashion trends.
Paper-II (Statistics)	**CO1:** To understand the concept, scope and role of statistics in research. **CO2**: Able to understand about sampling and data analysis techniques, methods of data analysis using various statistics and ability of testing Hypothesis. **CO3**: To develop an insight and practical application mean, median and mode as well as central tendency. CO4: Understanding various data analysis techniques (Mean, Mode, Median, Range, Standard Deviation, Karl person coefficient of correlation). CO5: Ability to apply various statistical tools to research problem
Paper - III **(**Family and Population Education**)**	**CO1:** Awareness about family planning and welfare. **CO2**: Knowledge about merits and demarits of joint and nuclear family and Family disorganisation **CO3**: Able to know about the relationship between population and environment CO4: Acquiring knowledge about importance of environment. CO5:Able to know about internal enviornment of the family.
Paper - IV (a) Food Service Management	**CO1:** Able to understand the process of planning,organizing andcontrolling the management of food and other resources in institutions. **CO2**: Able to apply skill based knowledge in food industry. CO3: Able to handle the food safety practices & quality control.

	CO4: To develop skill in data base management. CO5: Understand the special characteristics of food service management
Paper-IV (b) Colour Application in Textiles	**CO1:** Will be aware of conditions for dyeing, printing and finishing treatments. **CO2**: Knowledge about colour science and computer colour matching. CO3: Will be able to analyse dyed fibre, yarn and fabric, CO4: Able to know about different types dyes method CO5: Able to use of colour in various fabrics
Paper-IV (c) Marriage and Society	**CO1:** Be aware of meaning of marriage and types of marriage CO2: Able to know about marital adjustments CO3: Gain knowledge about Divorce and Remarriage. **CO4:** Will be able to know about society and it's type CO5: Able to know about culture and civilization and related Social Problems.
Paper-V Dissertation/Practical	**CO1:** Acquire practical skills for Tieing and Dyeing CO2: Able to know about Batik , Block Printing and Thread Work. CO3: Acqure knowledge about Patch Work, Embroidery , Seams/Pleats/Collar. **CO4:** Able for Preparation of Dissertation. CO5: Able to know about project work
Paper-VI (Rural Education)	**CO1:** Will have knowledge of meaning of Education, its Need and Importance of Rural education. **CO2**: Knowledge about the Goals of Rural Education Types, Barriers, Characteristics and differences between urban and rural education. CO3:To identify the problems occurring in Rural area CO4: Understand the factors contributing to change in community CO5:Understand the changing concept of Rural areas.

B.A.[Philosophy]	
Programme Outcome (POs)	
PO1	Realization of human Values
PO2	Deep Study about nature of knowledge.
PO3	Nature of ultimate reality orthodox and hetrodox.
PO4	After graduation students will be able to attend Civil Services Exam, B.Ed., B.T.C. and will be also Eligible for admissions to post-graduate programs for further studies
Programme Specific Outcome (PSOs)	
PSO1	Deep Knowledge of Indian and Western Philosophy.
PSO2	Students will be aware of Indian and Western Epistemology and Metaphysics.
PSO3	Students will be aware of various concepts in Applied Ethics (Ethics,

	Integrity and Aptitude) such as Ethics, Ethical issues, Practices in Business, Work Ethics and Personality Development.
PSO4	Will develop a logical concept.
PSO5	Will be able to understand clear concept of Religion Philosophy and Socio-political Philosophy and their culture.
PSO6	After completing BA(Philosophy) students will be able to analyse the matters and develop a strong logical ability.

Course Outcome -BA [Philosophy]

Semester-I

After completion of the Course, the student will:

Paper- 1 Ethics (WESTERN AND INDIAN ETHICS)	CO1: Be able to understand the definition, nature and scope of Western & Indian Ethics, Teleological Ethics, Deontological Ethics, Buddhist Ethics. CO2. After successfully completing this course the student. Should be able to Demostrate understanding of major ethical theories and problems in the Weston traditional through written and oral discussion. CO3. Assess arguments and philosophical perspectives using critical reasoning. CO4. Express complex thoughts logically and coherently. CO5. Apply Knowledge of ethical perspectives, and critical reasoning to develop his or own opinions regarding Philosophical problem and issues.
Paper – II INDIAN PHILOSOPHY (INDIAN EPISTEMOLOGY AND METAPHYSICS)	CO1: Able to understand the general characteristics of Indian Philosophy CO2. Astika and Nastika system CO3. The doctrines of rebirth and Karma CO4. General Character of Upanishad, Bhagavadgita. CO5. Jainism, Early Buddhism and Buddha Philosophy.

Semester-II

After completion of the Course, the student will:

Paper- 1 (APPLIED ETHICS) (ETHICS, INTEGRITY, APTITUDE)	CO1: Be acquainted with the nature and scope of applied ethics, theoretical formulation of applied ethics. CO2: Will be aware of ethics and human Interface, differences between Ethical and morals Ethical Loyalties and Prima Facie duties. Human Values. CO3: Understand Emotional Intelligence. CO4: Understand the Value Ethical Concerns and dilemmas in government and private institution. CO5: Will be aware of Ethical Thinkers and their Contribution (Indian and Western).
Paper – II INDIAN PHILOSOPHY	CO1: Be aware of Samkhya and Satkaryavada Theory, The theory of three Gunas. CO2: Be aware of concept of Nyaya and theory of inference, Vyapti and its kinds. CO3: Will be aware of the meaning of Advaita Philosophy, The nature of Brahman, the nature of Maya, the nature of consciousness, theory of Avidya, the problem of Jivanmukti, the means of Moksha. CO4: Be acquainted with concept of Brahman and God, the qualities of God, the meaning of Vishishtadvait, the interpretation of Tattvamasi, the theory of creation, the Problem of Videhmukti, the means of moksha, Ramanuja's refutation of Shankara's theory of Avidya or Maya. CO5: Be acquainted with concept of Vallabha Philosophy.

Semester-III

After completion of the Course, the student will:

Paper- 1 LOGIC	CO1: Be aware the nature, definition and scope of logic, distinction between Deductive and inductive Logic, Truth and Validity and Soundness, the nature and illustration of thinking. CO2: Be aware of functions of language and it's kind, definition genus by differentia and Informal Fallacies. CO3: Will be aware of Inductive and Analogical Argument, Hypothesis and scientific explanation, criteria of evaluation of Hypothesis, Casual connexionas, and Mill's methods od Experimental enquiry. CO4: Understand categorical propositions and their kinds, Categorical syllogisms, Symbolic Logic, Statement and statement form, Argument and argument form, Logical connectives, negation, conjunction, disjunction, implication equivalence and their truth-table definitions, Truth-Table techniques of testing validity of arguments and statements. CO5. After successfully this course, the student should be able to improve critical thinking reading and writing.
Paper – II MODERN WESTERN PHILOSOPHY	CO1: Be aware of characteristics and relevance of classical Greek Philosophy and Modern-Philosophy, about the methods, Rationalism Versus Empiricism. CO2: Have the knowledge of Lock's criticism of Innate ideas & Locke's theory of Universals. CO3. His Idealism, Esse est percipi, Refutation of abstract ideas, Berkeley's contributions to Empiricism , Hume's theory, Hume's Skepticism. CO4: Understand the Berkley's Criticism of Locke's realism CO5: Able to examine Empiricism, Kant's ideas of criticism

Semester-IV

After completion of the Course, the student will:

Paper- 1 WESTERN EPISTEMOLOGY	CO1: Acquainted with general features and problems of Western epistemology. CO2: Aware of the concept of Rationalism, Empiricism and criticism with special reference to source, nature, validity and limits of knowledge CO3: Acquainted with the nature of truth, criterion and definition, Coherence, correspondence and pragmatic and Semantic Theory of truth. CO4: Be aware of the problem of Induction, Hume's Problem and its main solution, probability theory CO5. Scepticism and Problem of Universals.
Paper – II (EPISTEMOLOGY INDIAN)	CO1: Will be aware of the distinctive aspects of Indian logic such as Prama, Pramanas, Pramanyavad, Padartha and the nature of ultimate Reality, Man and world, Orthodox and Heterodox. CO2: Recognize and respond to the kind of question or problem that are characteristic of epistemology. For example what is knowledge ? How do we know when we have it ? what is scepticism and what is its impact on Philosophy? CO3: Utilize basic tools of Philosophyinquiry and argument. These include (a) Communicating an understanding of epistemological theories. CO4: Interpret Primary source material and show how historical texts may be applied to contemporary debates or dilemmas. CO5: write more how well effectively essays will be graded according to how they (a) Present a direct response to the questions clearly and accurately.

Semester-V

After completion of the Course, the student will:

Paper- 1 ANALYTICAL PHILOSOPHY	CO1: Aware of the linguistic truth and the conception of the Philosophy, CO2: meaning of the Philosophy CO3: Issue and Problems CO4: the relation between meaning and truth CO5: holistic approach to meaning and Speech acts.
Paper – II PHILOSOPHY OF RELIGION	CO1: Be acquainted with nature and scope of Philosophy of Religion, CO2: Able to differentiate and compare between theology and Philosophy of Religion, Religion and Ethics, Religion-Indian and western context, Religion without God. CO3: Acquainted with the concept of Deism, theism and Pantheism. CO4: Be aware of the problem of Evil and its solutions. CO5: Immortality of soul, Transmigration and Doctrine of Karma and Destiny of sou.
Paper – III SOCIO-POLITICAL PHILOSOPHY	CO1: Acquainted with Nature of Social Philosophy and its relation to sociology, Politics, ethics and Ecology, Social Institution, Individual and state theories of Punishment.
	CO2: Be aware of Political Ideologies and Methods of social change.
	CO3: Be aware School change.
	CO4: Acquainted with revolution,Teerrorism and its impact on society.
	CO5: Immortality of soul, Transmigration and Dectrine of Karma and Destiny of soul.

Semester-VI

After completion of the Course, the student will:

Paper- 1 PHENOMENOLOGY AND EXISTENTIALISM	CO1: Understand the Phenomenology, Phenomenological reduction and its stage, Intentionality of consciousness and Existentialism. CO2: Student will able to know Phenomenology and its nature, Definition, Area and scope. CO3: Edmund Husserl Development this through the natural world thesis essence and essential institution. CO4: Deep knowledge about pure consciousness and transcendental subjectively. CO5: Be aware of existentialism its nature and types according to sartue and heidager..
Paper – II COMPARATIVE RELIGION	CO1: Be aware of the Problems and methods in the study of religions, Possibility of the need for comparative religion, Religions experience in different religions and God. CO2: Be aware of comperative religion. CO3: Aquanted with the nature of inter religions dialogue and understanding. CO4: Be aware religious experience in different religious. CO5: Aquatinted with religious moral and social values religions and secular society possibility of universal religions.
Paper – III MODERN INDIAN THOUGHT	CO1: Be aware of the thoughts of modern Indian thinkers such as Ravindra Nath Tagore, M.K.Gandhi,Dr.B.R.Ambedakar, L.Neha - Neo-Buddhism and D.D. Upadhyay. CO2: student know about thinker believes. CO3: be aware the view of R.N. Tagore about man and God religion of

	man etc. CO4: Acquainted with the view of M.K. Gandhi about Truth , Non violence Satyagrah and Sarvodaya . CO5: Be Acquainted with view about view of Dr. B.R. Ambedakar about creation of social evil J.L. Nehru about New Buddhism and S.D.D. Upadhyay view of Ekatmmanav vaad etc.

M.A.[Philosophy]	
Programme Outcome (POs)	
PO1	Realization of Human Values.
PO2	Realization of Real world such as Brahman, God, Soul, Bondage and Liberalization, Truth Knowledge, reality of the world etc.
PO3	Sense of Social-Political Services.
PO4	Will Improve Logical ability.
PO5	Will be aware about thought of Indian and Western Philosophy.
Programme Specific Outcome (PSOs)	
PSO1	Will be able to do in-depth analysis of Epistemology and Metaphysics
PSO2	Will be aware of thoughts of Indian and Western Philosophy.
PSO3	Will be able to attempt to evaluate a few aspects of Epistemology, Logic, Metaphysics, Religion etc.
PSO4	Will be able to elaborate and evaluate various ethical issues as Karma, Virtue etc.
PSO5	will be able to evaluate any proposal based on Environmental Ethics, Eco Sustainable development, Social-political Ethics, Legal ethics etc.

Course Outcome - M.A.[Philosophy]

Semester-I

After completion of the Course, the student will:

Paper- 1 CLASSICAL INDIAN PHILOSOPHY-1	CO1: Understand the epistemology and metaphysics of the Upanishads and the heterodox schools such as Upanishads , Charvak , Jainism and Buddhism CO2: Able to distinguish between Vaibhashika and Sautrantika; Madhyamika Shunyavada and Yogachara Vigyanavada. CO3: Assess argument and Philosophical perspective using critical reasoning. CO4: express complex thoughts logically and coherently. CO5: Apply Knowledge of ethical perspectives and critical reasoning to develop his or own opinions regarding Philosophical problem and issues.
Paper – II GREEK PHILOSOPHY	CO1: Acquainted with the foundation of Western Philosophy and Problems of Early Greek Philosophy, CO2: Philosophy of Pythagoras. Problem of Change and Permanence, Greek Atomism and Democritus. CO3: Aware of Sophist's theory of Knowledge . CO4: Neo- Platonism, Plotinus- Doctrine of emanation, concept of God. CO5: Socrates Problems , Plato Theory Philosophy of Aristotle,
Paper – III MODERN WESTERN PHILOSOPHY	CO1: Ability to explain and evaluate the formulations of two German Philosophers; CO2: Able to examine Rationalism and Empiricism; Kantian notion of space and time, Kant's Agnosticism, reason and Understanding; CO3: Aware of the development of German Idealism from Kant to Ficthe, Schilling and Hegel,

	CO4: Hegelian Dialectic and its structure; CO5: Hegel's conception of Absolute Idealism.
Elective Paper-IV (a) (ADVANCED WESTERN ETHICS)	CO1: Acquainted with Basic Features of act, rule, definition and explanation, Ideal Utilitarianism and its defect. CO2: Aware of Edward Westermarck's, Ethical naturalism and its shortcoming. CO3: Able to understand G.E. Moore Ethical non naturalism and its shortcomings. CO4: Able to understand G.E. Moore Ethical non naturalism and its shortcomings. CO5: Evaluation and development of a advanced Ethics.
Elective Paper-IV (b) ADVANCED WESTERN ETHICS THINKERS	CO1: Understand Emotive Theory of Moral Language and its shortcomings. CO2: Will be aware of R.M. Hare's Prescriptive Theory of Moral Language and its shortcomings, CO3: Nature and Kind of Virtue Ethics and Critical Inquiry by W.K.Frankena. CO4: G.E. Moore Ethical natuaralism and its short coming. CO5: Evaluation and Development of advanced ethics.
Elective Paper-IV (c) ADVANCED WESTERN ETHICS THINKERS	CO1: Understand Emotive Theory of Moral Language and its shortcomings. CO2: Will be aware of R.M. Hare's Prescriptive Theory of Moral Language and its shortcomings. CO3: Nature and Kind of Virtue Ethics CO4: Critical Inquiry by W.K.Frankena. CO5: Importance role of advanced Weston ethics thinker for the welfare of modern society.
Paper – V (APPLIED ETHICS) TECHNOLOGICAL PHILOSOPHY	CO1: Understand the Importance of Authority, CO2: Social Discrimination. CO3: Democratization of Technology CO4: Assessment of Science and Technology with Reference to Social Welfare, CO5: Information Technology, Ethical Relavance of Bio Technology.
Paper – VI (YOGA) (Not for Philosophy Students)	CO1: Acquainted with Basic Concept of Yoga. CO2: History, Discipline and obstacles, CO3: Human Consciousness CO4: Hath Yoga. CO5: Yoga And Health.

Semester-II

After completion of the Course, the student will:

Paper- 1 CLASSICAL INDIAN PHILOSOPHY-II	CO1: Be aware of various orthodox systems of Classical Indian Philosophy CO2: Basic Concept of Nyaya Philosophy CO3: Basic Concept of Vaisheshika Philosophy CO4: Basic Concept of Sankhya Philosophy CO5: Basic Concept of Yoga and Mimansa Philosophy
Paper – II MODERN WESTERN PHILOSOPHY	CO1: Able to explain the contribution of four modern Western Philosophers; CO2: namely F.H. Bradley Philosophy CO3: William James Philosophy CO4: GE. Moore Philosophy CO5: Bertrand Russell and their theories Philosophy.
Paper – III INDIAN META	CO1: Be able to elaborate and evaluate various ethical issues such as karma,

ETHICS	virtue etc. of Upanishads, Upanishad, Bhagavad-Gita CO2: The heterodox and orthodox systems in Indian Philosophy. CO3: Moral ethics Bhagavad – Gita CO4: Concept of God. CO5: Concept of soul.
Elective Paper-IV (a) APPLIED ETHICS	CO1: Be aware of Value. CO2: Nature of applied ethics and its relation with normative ethics CO3: The Deductive and Inductive Models of Ethical CO4: Application and their examination, CO5: The Hermeneutic, Profession, Professionalism and professional Ethics.
Elective Paper-IV (b) (NATURE AND APPROACHES OF APPLIED ETHICS)	CO1: Aware of Nature and Approaches in Environmental Ethics, CO2: Bio-Medical Ethics, CO3: Administrative Ethics, CO4: Educational Ethics CO5: Socio- Political Ethics and Legal Ethics.
Paper – V ECOLOGICAL PHILOSOPHY	CO1: Aware of Nature as a means or an End Unit, CO2: Geo Ethics CO3: Deep Ecology CO4: Natural Right of Animals CO5: Constitutional Right for Nature.
Paper – VI (ANATOMY, PHYSIOLOGY AND YOGIC PRACTICE) (Not for Philosophy Students)	CO1: Be aware of Concept of Cell, Tissue, and Organs. CO2: Heart, Lungs, Liver, Kidney CO3: Digestive System CO4: Respiratory System CO5: Nervous System and Effects of Yogic Practices.

Semester-III

After completion of the Course, the student will:

Paper- 1 ANALYTICAL PHILOSOPHY	CO1: Ability to explain and elaborate the trend of analytical philosophy initiated by Russell CO2: Acquainted with L. Wittgenstein's, World and Object CO3: Truth Functional Theory CO4: Nature and function of Philosophy, A.J. Ayer's Language, Truth and Logic. CO5: Concept of analytical Philosophy.
Paper – II MODERN WESTERN PHILOSOPHY	CO1: Be aware of philosophical views of some contemporary Indian Philosophers such as Vivekananda. CO2: Aurobindo, K.C. Bhattacharya CO3: S. Radhakrishnan, M.K. Gandhi CO4: J.L. Nehru - Vaigyanik Manwvad CO5: B.R. Ambedkar and Deen Dayal Upaddhaya.
Paper – III PHENOMENOLOLGY AND EXISTENTIALISM	CO1: Be acquainted with the basic issues of Phenomenology and Existentialism. CO2: Understand and critically examine the philosophical concepts such as intentionally, subjectivity, authenticity, choice, being CO3: , time freedom, existence and God.

	CO4: Be aware of the concept Phenomenology; Naturalism , CO5: Existentialism and Humanism.
Elective Paper-IV (a) PHILOSOPHY OF KANT OR	CO1: Be aware of Background of Kant's Philosophy – his precursors. CO2: Time and space CO3: Categorical imperative CO4: categories CO5: concept of good will.
Elective Paper-IV (b) PHILOSOPHY OF SHANKARACHARYA	CO1: Be acquainted with philosophy of Shankaracharya. CO2: though his precursor Badarayana CO3: critical exposition of major schools averse to Advaita Vedanta CO4: Modern Interpretation of Shankara's Philosophy CO5: comparison with some Western Philosophers.
Paper – V MEDICAL ETHICS	CO1: Be aware of Doctor Patient relationship CO2: Surrogacy, abortion CO3: women foetieide CO4: Euthaenasia LEGAL ETHICS, Law and Morality CO5: Authority of law and legal obligation.
Paper – VI (YOGA AND PERSONALITY DEVELOPMENT)) (Not for Philosophy Students)	CO1: Acquainted with Concept of Yoga CO2: Personality CO3: Yogic Techniques CO4: Ashtangik Yoga CO5: Concept of kriya Yoga.

Semester-IV

After completion of the Course, the student will:

Paper- 1 ORDINARY LANGUAGE PHILOSOPHY	CO1: Acquire an ability to explain a new trend of Ordinary Language CO2: Philosophy initiated by Later Phase and further philosophers. CO3: Extra ordinary Language CO4: Concept of Ordinary language. CO5: Ordinary Language.
Paper – II SCHOOLS OF VEDANTA	CO1: Acquainted with the systematic development of the schools of CO2: Concept of Brahman, CO3: Concept of Atman, CO4: Vedanta through a Philosophical analysis of the basic concepts such as Concept of Jagat, CO5: Concept of Bondage and Liberation.
Paper – III SOCIAL AND POLITICAL PHILOSOPHY	CO1: Understand basic concepts of Socio-Political Philosophical issues with reference to Western and Indian Philosophies. CO2: Be aware of political Ideologies and methods of social change. CO3: be aware Social change. CO4: Acquainted with revolution, Terrorism and its impact on society CO5: Be aware of tradition, change and modernity with special reference.
Elective Paper-IV (a) SYMBOLIC LOGIC	CO1: Be aware of Categorical Proposition. CO2: Traditional Squire of Opposition and its, Kinds. CO3: Proving Validity of Arguments by Six Rule, Arguments by Venn Diagram Technique. CO4: Proving validity of Arguments by Truth Table Method. CO5: Basic of Quantification Theory and Logic of Relation.
Elective Paper-IV (b) PHILOSOPHY OF	CO1: Be aware of Nature and Scope of Philosophy of Religion, Distinction between Theology and Philosophy of Religion, Religion and Ethics Nature of

RELIGION	Religion- Indian and Western. CO2: Traditional Arguments and Arguments based on Religious Experience for existence of God. The Problem. Of Evil and its solutions. CO3: Be aware and interpret Religions without God CO4: Nature of God, Naturalistic and in Naturalistic; Deism, Theism and Pantheism, CO5: Understand Immortality of soul, Transmigration and Doctrine of Karma, Destiny of Soul Salvation and Moksha, Pathways of Moksha, Karma, Bhakti and Jnana.
Paper – V (APPLIED ETHICS) (PROFESSIONAL / ADMINISTRATIVE ETHICS)	CO1: be aware of Profession, Service and Business Administration and moral Responsibility. CO2: understand ethical issues related to provoking and obscene description.
Paper – VI (NATUROPATHY) (Not for Philosophy Students)	CO1: Acquainted with the Concept of Neuropathology, CO2: Acupressure CO3: Diet and Fasting. CO4: Aware of ASANAS such as SIDDHASAN, SARVANGASAN and SURYA NAMASKAR. CO5: Concept of Pranayams.

B.A.[Political Science]	
Programme Outcome (POs)	
PO1	Students develop an understanding of Concepts, theoretical frameworks, perspectives and methods of inquiry.
PO2	Students are trained to think rationally and critically.
PO3	Students learn to appreciate diversity and develop cultural sensitivity.
PO4	Recognition of self as an individual with strengths and weaknesses.
PO5	Students imbibe human values and become responsible citizens.
PO6	Eligible for admissions to post-graduate programs for further studies.
Programme Specific Outcome (PSOs)	
PSO1	Compare and contrast the theories, philosophies, and concepts in the discipline of Political Science and understand the individual living in state and society.
PSO2	The program would help to have an understanding of political behavior, constitution, governance and power and how these are shaped by institutions, ideas, interest and resources of political factors.
PSO3	The program would provide an understanding of contributions of western political thinkers to political thought.
PSO4	The program would help to get acquainted with the basic concepts and principles of public administration and it's dynamics and familiarize with important issues of political science.

Course Outcome- B.A.[Political Science]

Semester-I

After the completion of the Course, the student:

Paper-I POLITICAL THEORY	CO1: will be aware of the definition - Nature and scope of Political Science. CO2: will know aobut Politics, Political theory, political philosophy, comparative politics. CO3: will know about Political Science and Its relation with other social sciences, History, economics, psychology, sociology.

	CO4: will aware of different approaches to the study of political science. CO5: will learn about State.
Paper-II INDIAN GOVT. & POLITICS	CO1: will be aware of the process of making of India's Constitution, Fundamental Rights, The directive principles of state policy, Fundamental duties. CO2: Will have knowledge of election, power and role of President, Vice President, Prime Minister and Council of Ministers, Attorney General and C.A.G. CO3: will be aware of the role of the Parliament, Loksabha, Rajya Sabha, and Parliamentary Committees in the Rule making process. CO4: aware of the Supreme Court of India, Structure and Jurisdiction, Judicial review, Judicial Activism, Lokpal. CO5: will be aware of Judiciary.

Semester-II

After the completion of the Course, the student:

Paper-I POLITICAL THEORY	CO1: Understand the terms, Concepts, attributes & different theories Sovereignty. CO2: Will be aware of the Concepts of Liberty, equality, rights, law, justice and punishment. CO3: Will have the knowledge of Evolutionary socialism, Marxism & Neo Marxism. CO4: will able to elaborate the concept of Liberalism & Neo Liberalism, Democracy, Gandhism, Fascism, Nazism, Authoritarianism and Anarchism. CO5: will understand Fascism, Nazism, Authoritarianism & Anarchism.
Paper-II INDIAN GOVT. & POLITICS	CO1: will be aware of the process of appointment, Power and role of Governor, Chief Minister and Council of Ministers, Advocate General. CO2: Will understand Law making process and role of Vidhan Sabha, Vidhan Parishad, Power and Functions. CO3: will be aware of Centre-State Relations, Major Political Parties in India, National and Regional, Election Commission, Electoral reforms. CO4: will be aware of the High Court, District Courts, Lok Adalat, Lokayukta and able to identify Major challenges before Indian Politics. CO5: will know about major challenges before Indian Politics – Caste, religion, communalism, regionalism defection, Terrorism.

Semester-III

Paper-I WESTERN POLITICAL THOUGHT	CO1: will be aware of meaning and nature of Political Thought, Characteristics of Ancient Greek Political Thought such as Plato and Aristotle. Citizenship. CO2: will be acquainted with Features of Medieval Political Thoughts of Aquinas, Machiavelli and BODIN, Hobbes, Locke, J. J. Rousseau's Concept of General Will. CO3: will be aware of features of Medieval Political Thought. CO4: will be aware of Hobbes, Locke – State of nature, social contract, sovereignty, state Rousseall's Concept of General Will. CO5: will be aware of J.J. Rousseau – State of nature, social contract, Sovereignty, State and Concept of General Will.
Paper-II COMPARATIVE GOVENRMENT	CO1: able to understand meaning of comparative government and comparative Politics, Nature, Scope and Approaches to the study of comparative Government - Traditional and Modern Approaches.

& POLITICS	CO2: able to elaborate the concept of Constitution and constitutionalism. CO3: will be able to understand the Judiciary, Rule of Law. CO4: ability to explain Unitary and federal parliamentary and presidential, coalition government, Democracy, Dictatorship centralization, Local self government, Decentralisation. CO5: know about Democracy, Dictatorship centralization, Local self government, Decentralisation.

Semester-IV

Paper-I WESTERN POLITICAL THOUGHT	CO1: will be able to understand Montesquieu & Green – Concept of Law. CO2: will be able to understand Bentham and Mill. CO3: will be able to understand Hegel & Maxx. CO4: will be able to understand Lenin & Stalin. CO5: will be able to understand MAO – Peasantry, Revolution, Guerilla Welfare, Importance of his Philosophy and contribution to political philosophy.
Paper-II COMPARATIVE GOVENRMENT & POLITICS	CO1: will be aware of the Political culture, socialization, modernization & development. CO2: will have knowledge of the Political Parties and party System in India. CO3: will be aware of Role and techniques of Pressure groups in democracy and Importance of Pressure groups in Modern state. CO4: will be acquainted with Election system & Voting behavior, Electoral reforms, Direct Democracy or Referendum (PLBISCITE), initiative and recall. CO5: will understand the Role and importance of Public Opinion.

Semester-V

Paper-I INDIAN POLITICAL THOUGHT	CO1: will be aware of Sources of Indian Political thought, Political Ideas of Manu & Kautilya. CO2: will be acquainted with Jain political thought, main Political Ideas of Buddhism and Political Ideas of Mahabharat. CO3: will be aware of Indian Renaissance & Political Ideas of Raja Ram Mohan Ray. CO5: will be acquainted with Political Ideas of Dayanand Saraswati and Swami Vivekanand.
Paper-II PUBLIC ADMINISTRATION WITH SPECIAL REFERENCE TO INDIA	CO1: will understand the Meaning, Nature, Scope, Significance, Public and Private Administration. Evolution of Public Administration. CO2: will be aware of meaning, types and bases, principles and structure of organization. Span of control, Unity of Command, Hierarchy, Centralization and decentralization. CO3: will be acquainted with Central Secretariat, Cabinet Secretariat, PMS Office, and Centre-State Relations. CO4: will be aware of the Machinery of central and state level, Definition and Concept of Budget and its planning and formulation, Approval and Execution, National Development Council, Economic Liberalization, Public Sector undertaking. CO5: will understand the Parliamentary control over Administration, P.A.C. and estimates committee and C.A.G.
Paper-III THEORY AND PRACTICE OF INTERNATIONAL RELATIONS	CO1: will understand International Relations, Approaches of study of International Relations. CO2: will be aware of Cold war and its impact on world politics. CO3: will be acquainted with the Present International Security Environment. Problems of third world security, Peace and Security,

	Diplomacy, disarmament. Environmentalism and Human Rights. CO4: will be aware of the Present International Security Environment. Problems of third world security. CO5: will know about Peace and Security. Diplomacy, disarmament. Environmentalism and Human Rights.

Semester-VI

Paper-I INDIAN POLITICAL THOUGHT	CO1: will be aware of the thoughts of Bal Gangadhar Tilak, Shri Aurobindo Ghosh. CO2: will be aware political idea of M. N. Roy. CO3: will be acuainted with Life work and entire contribution of Mahatma Gandhi to Indian Political Thought, Pt. Jawahar Lal Nehru, B.R. Ambedkar, R.N. Tagore's, R.M. Lohia, J.P. Narayan and Abul Kalam Azad. CO4: will know about political idea of Ambedkar & Ravindra Nath Tagore. CO5: will aware of the Political Ideas of R.M. Lohia, J.P. Narayan and Abul Kalam Azad and their contribution to Indian Political Thought.
Paper-II PUBLIC ADMINISTRATION WITH SPECIAL REFERENCE TO INDIA	CO1: will be aware of and understand State Administration , District Administration, Panchayati Raj. CO2: will be aware of Welfare Administration for SC & ST and women, issue areas of Indian Administration. CO3: will understand Generalist Vs Specialist controversy, Problem of corruption. CO4: will be acquainted with Lokyukta & Lokpal, Minister and Civil Servant Relationship. Administrative Behavior and Communication Accountability. CO5: will know about Generalist Vs Specialist controversy, Problem of corruption, Lokyukta & Lokpal, Minister and Civil Servant Relationship.
Paper-III THEORY AND PRACTICE OF INTERNATIONAL RELATIONS	CO1: will be aware NAM, North-South dialogue, Regional Organization - ASEAN, SAARC and BIMSTEC. CO2: will be able to understand India's Foreign Policy and its determinants and objectives. CO3: will be aware of the Development of Indian Foreign Policy, India and her Neighbours, International Terrorism, Nuclear Proliferation, Disarmaments and Arms Control. Collective Security. CO4: will have status knowledge of Indo-US, Indo-China and Indo-Pak Relations. CO5: will have knowledge of Disarmaments and Arms Control. Collective Security. Indo-US, Indo-China and Into-Pak Relations.

M.A.[Political Science]	
Programme Outcome (POs)	
PO1	Will be able to realise human values.
PO2	Will become a responsible & dutiful citizen.
PO3	Will develop a sense of social service
PO4	Will have critical temper
PO5	Will develop a creative ability
Programme Specific Outcome (PSOs)	
PSO1	Compare and contrast the theories, philosophies, and concepts in the discipline of Political Science and understand the individual living in state and society.

PSO2	The program would help to have an understanding of political behavior, constitution, governance and power and how these are shaped by institutions, ideas, interest and resources of political factors.
PSO3	The program would provide an understanding of contributions of western political thinkers to political thought.
PSO4	The program would help to get acquainted with the basic concepts and principles of public administration and it's dynamics and familiarize with important issues of political science.
PSO5	The program would help to understand the law which applies to the international relations.

Course Outcome- M.A.[Political Science]

Semester-I

After completion of the Course, the student:

Paper-I Western Political Thought	CO1: will be aware of Main features of Greek Political Philosophers Plato and Aristotle. CO2: will be acquainted with main features and thoughts of Medieval Political thinkers such as ST. Augustine, ST. Thomas Aquinas and Marsilio of Padua. CO3: will be aware of the main features and thoughts of Modern Political thinkers such as Jean Bodin, Machiavelli, Hobbes, Locke and Jean Jacques Rousseau. CO4: will be aware of the main feature and thoughts of Machiavelli & Hobbes. CO5: will know about Locke on Law of Nature and Human Nature and Rousseau on Human Nature.
Paper-II Comparative Politics IInd Paper	CO1: will be aware of Approaches to the Study of Comparative Politics. CO2: will be aware of Meaning, Nature and Scope of Comparative Politics. CO3: will be aware of Democratic & Dictatorship Theory. CO4: will be aware of Political Development & Political Modernisation. CO5: will be aware of Political Culture & Scocialization.
Paper-III Ancient Indian Political Thought	CO1: acquainted with Ancient Indian Political Thought and Main Features of Ancient Indian Political Thoughts, Sources of Ancient Indian Political Thought. CO2: aware of characteristics of Manusmriti, Sukra Niti, Kautilya Saptang Siddhant, Mahabharat Shanti Parva, Jainism and Ancient Indian Political thought and relevance to Rural India in past. CO3: will know about Kautilya. CO4: will aware of Mahabharat - Shanti Parva, Politics, State, Morality. CO5: will know about Jainisn & Buddhism.
Paper-IV (a) Indian	CO1: will be aware of the organization and working of Constituent Assembly.

Political System *********	CO2: will be able to understand Indian Constitution, Sources, Salient Features of Indian constitution. CO3: Will be aware of role of Central Executive President, Prime Minister & council of Ministers. Legislature Parliament, Lok Sabha, Rajya Sabha, Role of Supreme Court, Judicial Activism. CO4: will be aware of State Government and role of Governor, Chief Minister and Council of Ministers, Vidhan Sabha & Vidhan Parishad. State Judiciary and High Court CO5: will be able to understand and explain Centre-State Relations Legislative Relations, Administrative Relations, Financial Relations. Challenges Before Indian Democracy.
Paper-V Research Methods in Social Sciences	CO1: General Remarks about Social Science & Natural Sciences Research. CO2: Limitation of Social Science Research. CO3: Importance of Theories & Facts in Research. CO4: Social Science Research & Public Policy. CO5: Basic Parameters of I.R. Research.
Paper-VI Green Political Thought (Not for Political Science Students)	student will learn about: CO1: Environmental Values in social & Political thought. CO2: Ecology & Enlightenment. CO3: The Development of Modern Eco-Political Thought. CO4: The Ethics of Ecological Humanism. CO5: Causes of Environmental Destructions.

Semester-II

After completion of the Course, the student:

Paper-I Western Political Thought	CO1: will know about main features of Modern Political Thought, Montesquieu- Ideas of Law, Concept of Separation of Powers & Montesquieu on Liberty. CO2: know about Jeremy Bentham & J. S. Mill. CO3: know aobut T.H. Green & Hegel. CO4: know about Karl Marx & Lenin. CO5: know about H.J. Laski & Satre.
Paper-II Comparative Government	CO1: will know about Comparative Government- Meaning, Nature and scope, Comparative Government & It's relation with comparative politics. CO2: will know about Constitution & Constitutionalism. CO3: will know about Political Parties & Pressure Groups. CO4: will know about Types of Government. CO5: will know about Election-Voting Behavior, Electoral Reforms.
Paper-III Modern Indian Political Thought	CO1: will know about main Features of Modern Indian Political Thought, Indian Renaissance- Meaning, Nature and Charactertics, Currents of Modern Indian Political thought- Liberalism, Extremism & Revolutionary Nationalism, Idealism, Socialism and Communism. CO2: will know about Raja Ram Mohan Roy, Swami Vivekanand, Gopal Krishna Gokhale & Syed Ahmed Khan. CO3: will know about the ideas of Bal Gangadhar Tilak & Shri Aurbindo Ghosh. CO4: will know about social and political ideas of V. D. Savarkar, Madan Mohan Malviya, M. N. Roy, Jawahar Lal Nehru.

	CO5: will know about main ideas of Gandhi and ideas of social justice of B. R. Ambedkar.
Paper-IV (a) Indian Administration	CO1: Will have knowledge about the Evolution, characteristics of Post-Independence Indian Administration, CO2: will be aware of Structure of Central Administration Planning in India, Features of Indian Civil Service, Recruitment, Training & Promotion of civil servants, U.P.SC., Role and Importance of D.M. Panchayati Raj Institutions and Welfare Administration. CO3: will be aware of Planning in India. CO4: will know about feature of Indian Civl Service. CO5: will know about Welfare Administration.
Paper-V Green Political Thought	CO1: will be aware of Environmental Economcis. CO2: will be aware of sustainable development. CO3: will be aware of Political Ecology. CO4: will be aware of Ecological Challenges. CO5: will be aware of Ecologism.
Paper-VI Research Methods in Social Sciences	CO1:.will be aware of sources of Information CO2: will be aware of Classification & Documentation. CO3: will be aware of Technique of Data Colleciton CO4: will be aware of personal observation method, respondent perception. CO5: will be aware of survey method & experimental method.

Semester-III

After completion of the Course, the student:

Paper-I Theory of International Politics	CO 1: will know about International Politics:- Developments. CO 2: will know about Theories of International Politics:- Realist, Liberal Systems. CO 3: will know about Main Concepts in International Politics. CO 4: will know about Cold War and Post Cold War CO 5: will know about Contemporary Issues:- Human Rights, Terrorism, Cultural conflict, Globlisation and Its Impact.
Paper-II Principles of Public Administration	CO1: will have knowledge about the Basic Premises of public administration. CO2: will have knowledge about the Organization. CO3: will have knowledge about the Structure of Organization. CO4: will have knowledge of Comparative &- Development Administration. CO5: will have knowledge of Public Policy.
Paper-III Foreign Policy of Major Powers	CO1: will be aware and understand Foreign Policy of Major Powers. CO2: will be aware and understand Forign Policy of USA. CO3: will be aware and understand Forign Policy of Russia. CO4: will be aware and understand Forign Policy of China. CO5: will be aware and understand Forign Policy of Japan.
Paper-IV (a) India's Foreign Policy	CO1: will understand Principles & Objectives of India's foreign Policy. CO2: will understand domestic determination, geography, history & culture. CO3: will understand structure of foreign policy. CO4: will understand India's foreign policy. CO5: will understand India's approach to major global issues.
Paper-V	CO1: will be aware of Ecofeminist Movement.

Green Political Thought	CO2: will be aware of Environmental Policy in Planning Commission (NITI Ayog). CO3: will be aware of Environmental Policy in Constitution. CO4: will be aware of Environmental Policy in Law. CO5: will be aware of Environmental Policy in NGOs.
Paper-VI Research Methods in Social Sciences	CO1: will be aware of Classification & Tabulation of Information. CO2: will be aware of Graphical & Diagrammatical representation of Information. CO3: will be aware of Comparison and analysis of information. CO4: will be aware of application of Averages & measure of central tendency. CO5: will be aware of Measures of dispersion.

Semester-IV

After completion of the Course, the student:

Paper-I International Law	CO1: will be aware of Internation Law. CO2: will be aware of Law of Peace. CO3: will be aware of International Transactions. CO4: will be aware of Force & Internation Law. CO5: will be aware of Nautrality, Blockade & contraband.
Paper-II Principles of Public Administration	CO1: will be aware of personal administration – bureaucracy and civil services. CO2: will be aware of administrative reforms. CO3: will be aware of Concept of budget. CO4: will be aware of accountability law. CO5: will be aware of administrative law.
Paper-III International Organization	CO1: will understand Genesis and Evolution of International Organisations. CO2: will be aware of League of Nations. CO3: will be aware of U.N.O. CO4: will be aware of Agencies of U.N.O. – UNESCO, WHO, IMF, UNICEF. CO5: will be aware of regional organizations – Nato, Opec Asean, Saarc etc.
Paper-IV India in world Affairs	CO1: will be able to understand The making of India's foreign Policy. CO2: will be able to understand the Development of Foreign Policy 1920-1947. India & Its Neighbours. CO3: will be able to understand India & Major Powers – USA, Russia, France, Britain, etc. CO4: will be able to understand Contemporary challenges Before Indian Foreign Policy. CO5: will be able to understand India's Foreign Policy in Post cold war era, India's Security concern & Nuclear Policy.
Paper-V Green Political Thought	CO1: will be able to understand Green Movement in India. CO2: will be able to understand Green Movement in U.P., with special reference to Ganga Green Belt. CO3: will be able to understand Pollution and It's eradication. CO4: will be able to understand Eradication of Pollution in Ganga Green Belt. CO5: will be able to understand Ecological activism- Namami Ganga-

	Ganga Rakshak, Ganga Sewak etc.
Paper-VI Research Method in Social Sciences	CO1: will understand theory of sampling & its important characteristics. CO2: will understand various types of sampling & its important characteristics. CO3: will be aware of research, problems and research designs. CO4: will be aware of formulating a hypotheis. CO5: will be aware of how to write a thesis on contemporary issues.

B.A.[Sanskrit]	
Programme Outcome (POs)	
PO1	Will be able to realise human values. मानवीय मूल्यों को समझ सकेंगे।
PO2	Will become a responsible & dutiful citizen. एक जिम्मेदार और कर्तव्यपरायण नागरिक बनेंगे।
PO3	Will develop a sense of social service समाज सेवा की भावना विकसित होगी
PO4	Will have critical temper आलोचनात्मक स्वभाव रहेगा
PO5	Will develop a creative ability रचनात्मक क्षमता का विकास होगा
PO6	will be Eligible for admissions to post-graduate programs for further studies. and appear for various competitive exams of UG level eligiblity. आगे की पढ़ाई के लिए स्नातकोत्तर कार्यक्रमों में प्रवेश के लिए पात्र होंगे और यूजी स्तर की पात्रता की विभिन्न प्रतियोगी परीक्षाओं के लिए उपस्थित हों।
Programme Specific Outcome (PSOs)	
PSO1	Proficient in Sanskrit Speech संस्कृत भाषण में कुशल
PSO2	able to understand Indian Culture as a whole भारतीय संस्कृति को समग्र रूप से समझने में सक्षम
PSO3	able to understand Sanskrit grammer. संस्कृत व्याकरण को समझने में सक्षम।
PSO4	The highest government administrative services at the central and state level, and able to understand Sanskrit Sahitya केंद्र और राज्य स्तर पर सर्वोच्च सरकारी प्रशासनिक सेवाएं और संस्कृत साहित्य को समझने में सक्षम

Course Outcome

Semester-I

Course Outcome- B.A.[Sanskrit]

Semester-I

Course Outcome (COs): पाठ्यक्रम के अध्ययन के पश्चात् छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र नाटक एवं अनुवाद	CO1: अभिज्ञानशाकुन्तलम् नाटक संस्कृत साहित्य में महत्वपूर्ण स्थान रखता है। इसके अध्ययन से छात्र में पर्यावरण के प्रति अनुराग उत्पन्न होगा। CO3: भारतीय संस्कृति का ज्ञान प्राप्त होगा। CO3: सामान्य संस्कृत अनुवाद के अध्ययन द्वारा छात्र संस्कृत भाषा को समझने में दक्ष होगा। CO4: छात्रों में लोक व्यवहार ज्ञान में वृद्धि होगी। CO5: संस्कृत संभाषण में दक्षता प्राप्त होगी।
द्वितीय प्रश्न–पत्र व्याकरण, छन्द एवं अलंकार	CO1: संज्ञा प्रकरण के अध्ययन के पश्चात् छात्र व्याकरण शास्त्र में महत्वपूर्ण संज्ञाओं को समझने में दक्ष होगा। CO2: नाट्य शास्त्रीय टिप्पणी के अध्ययन के पश्चात् छात्र किसी भी नाटक को पढ़ने और समझने में दक्षता प्राप्त करेगा। CO3: साहित्य दर्पण के आधार पर अलंकारों का अध्ययन करने के पश्चात् छात्र संस्कृत साहित्य में अलंकारों को समझने में दक्ष होगा। CO4: छन्द वेद नामक पुरूष का चरण कहा जाता है। छन्द का अध्ययन करने के पश्चात् छात्र संस्कृत काव्य पाठ करने में दक्ष होगा। CO5: संस्कृत साहित्य के प्रति रूचि उत्पन्न होगी।

Semester-II

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र काव्य एवं निबन्ध	CO1: मेघदूत खण्डकाव्य का अध्ययन करने के पश्चात् छात्र गीतिकाव्य को पढ़ने में दक्षता प्राप्त करेगा तथा उसे तत्कालिक भौगोलिक ज्ञान प्राप्त होगा। CO2: किरातार्जुनीयम् महाकाव्य के प्रथम सर्ग का अध्ययन करने से छात्र में महाकवि भारवि के अर्थ गौरव को समझने में दक्षता प्राप्त होगी। CO3: छात्र में राजनैतिक गुण का विकास होगा। CO4: संस्कृत लेखन में दक्षता प्राप्त होगी। CO5: छात्र में सामाजिक ज्ञान प्राप्त करने में दक्षता उत्पन्न होगी।
द्वितीय प्रश्न–पत्र नीतिशतक एवं अनुवाद	CO1: नीतिशतकम् के अध्ययन से छात्र में नैतिकता का विकास होगा। CO2: हिन्दी से संस्कृत तथा संस्कृत से हिन्दी अनुवाद करने में दक्षता प्राप्त करेगा।

	CO3: विद्यार्थियों के शब्दकोश में वृद्धि के साथ–साथ सस्वर उच्चारण में दक्षता प्राप्त होगी। CO4: काव्य में छनद, रस तथा अलंकारों को समझने में दक्षता प्राप्त होगी। CO5: संस्कृत साहित्य की सुगीतात्मकता का सौन्दर्यबोध करने में दक्षता प्राप्त होगी।

Semester-III

Course Outcome (COs): पाठ्यक्रम के अध्ययन के पश्चात् छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र काव्य एवं संस्कृत साहित्य का इतिहास	CO1: कादम्बरीकथामुखम् के अध्ययन से छात्र क्लिष्ट सामासिक पदों को समझने में दक्षता प्राप्त करेगा। CO2: लौकिक संस्कृत साहित्य में रामायण एवं महाभारत महत्वपूर्ण महाकाव्य हैं। इन महाकाव्यों के इतिहास का अध्ययन करके छात्र में संस्कृत साहित्य को समझने में दक्षता प्राप्त होगी। CO3: छात्रों में पर्यावरण के प्रति जागरूकता उत्पन्न होगी। CO4: कादम्बरीकथामुखम् के अध्ययन से प्रकृति के प्रति संवेदना उत्पन्न होगी। CO5: भाषा का प्रौढ़ ज्ञान प्राप्त करने में दक्षता प्राप्त होगी।
द्वितीय प्रश्न–पत्र संस्कृत साहित्य का इतिहास, व्याकरण एवं हितोपदेश	CO1: संस्कृत साहित्य के अध्ययन से छात्र में संस्कृत साहित्य का सामान्य अध्ययन करने में दक्षता प्राप्त होगी। CO2: हितोपदेश की लघुकथाओं के माध्यम से छात्र को जीवनोपयोगी शिक्षा प्राप्त होगी। CO3: हितोपदेश के अध्ययन से छात्रों में नैतिकता का विकास होगा। CO4: हितोपदेश के अध्ययन से छात्रों में चारित्रिक विकास होगा। CO5: हितोपदेश के अध्ययन से जीवनोपयोगी सिद्धान्तों का विकास होगा।

Semester-IV

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र वेद एवं व्याकरण	CO1: वैदिक सूक्तों के अध्ययन छात्र वैदिक मंत्रों को पढ़ने और समझने में दक्ष होगा। CO2: लघुसिद्धान्तकौमुदी के सन्धि प्रकरण से अध्ययन छात्र क्लिष्ट संस्कृत शब्दों को समझने में दक्ष होगा। CO3: वैदिक स्वरों का ज्ञान प्राप्त होगा। CO4: वैदिक वाड्मय एवं संस्कृति का ज्ञान प्राप्त कर सकेंगे। CO5: वैदिक संस्कृति के प्रति गौरवबोध होगा।
द्वितीय प्रश्न–पत्र उपनिषद एवं शब्दरूप तथा धातुरूप	CO1: कठोपनिषद् का अध्ययन करने से छात्र में भारतीय दर्शन को समझने में दक्षता प्राप्त होगी तथा शब्दरूप तथा धातुरूप के माध्यम से उसके शब्दकोष का विकास होगा। CO2: औपनिषदिक संस्कृति के प्रति गौरवबोध होगा। CO3: औपनिषदिक उपदेशों का ज्ञान प्राप्त होगा।

	CO4: दार्शनिक तत्वों में अनुसक्त गूढ़ार्थ बोध होगा। CO5: कठापनिषद् के अध्ययन से विद्यार्थियों में श्रेय और प्रेय के प्रति भेद ज्ञान प्राप्त होगा।

Semester-V

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र नाटक	CO1: उत्तररामचरितम् नाटक का अध्ययन करने से छात्र परवर्ती राम कथा का ज्ञान प्राप्त करेंगे। CO2: महाकवि भवभूति को समझने में दक्षता प्राप्त करेगा। CO3: छात्रों को राजा के आदर्श रूप का ज्ञान प्राप्त होगा। CO4: त्याग की भावना का विकास होगा। CO5: नीति और धर्म की पराकाष्ठा का विकास होगा।
द्वितीय प्रश्न–पत्र उपनिषद् एवं काव्यशास्त्र	CO1: ईशावस्योपनिषद् का अध्ययन करने से छात्र को भगवत्तत्वरूप ज्ञानकाण्ड को समझने में दक्षता प्राप्त करेगा। CO2: साहित्य दर्पण का अध्ययन करने से छात्र काव्य शास्त्र को समझने में दक्ष होगा। CO3: औपनिषदिक संस्कृति के प्रति गौरवबोध होगा। CO4: औपनिषदिक उपदेशों का ज्ञान प्राप्त होगा। CO3: दार्शनिक तत्वों में अनुस्पूत गूढ़ार्धबोध होगा।
तृतीय प्रश्न–पत्र संस्कृत व्याकरण एवं निबन्ध	CO1: लघुसिद्धान्तकौमुदी के समास प्रकरण के अध्ययन से छात्र दीर्घ सामासिक पदों को समझने में दक्ष होगा। CO2: छात्र संस्कृत लेखन कला में दक्ष होगा। CO3: छात्रों के शब्दज्ञान में वृद्धि होगी। CO4: छात्रों में रचनात्मक क्षमता का विकास होगा। CO5: छात्रों में शुद्धवाक्य विन्यास कौशल का विकास होगा।

Semester-VI

Course Outcome (COs): पाठ्यक्रम के अध्ययन के उपरान्त छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र भारतीय दर्शन एवं भारतीय संस्कृति	CO1: छात्र न्याय वैशेषिक दर्शन के साथ–साथ समस्त भारतीय दर्शन, भारतीय संस्कृति को समझने में दक्ष होगा। CO2: भारतीय दार्शनिक तत्वों का सामान्य परिचय प्राप्त होगा। CO3: छात्रों में संस्कारों की उपादेयता का ज्ञान प्राप्त होगा। CO4: छात्रों को पुरुषार्थचतुष्टय का ज्ञान प्राप्त होगा। CO5: छात्रों में भारतीय संस्कृति के प्रति जागरूकता प्राप्त होगी।
द्वितीय प्रश्न–पत्र संस्कृत व्याकरण	CO1: व्याकरण वेद नामक पुरूष का मुख कहा जाता है। कारक प्रकरण तथा स्त्री प्रत्यय के अध्ययन से छात्र प्रौढ़ संस्कृत व्याकरण शास्त्र समझने में दक्ष होगा। CO2: संस्कृत लेखन का कला का विकास होगा। CO3: शब्दज्ञान कोश में वृद्धि होगी। CO4: शुद्ध वाक्यविन्यास कौशल का विकास होगा।

	CO5: छात्रों में कल्पनाशीलता एवं रचनात्मक क्षमता का विकास होगा।
तृतीय प्रश्न–पत्र मौखिकी परीक्षा	CO1: संस्कृत वाग्–व्यवहार में दक्षता प्राप्त होगी। CO2: शैक्षणिक अभिव्यक्ति क्षमता का विकास होगा। CO3: संभाषण विकास होगा। CO4: सम्यक् प्रश्नोत्तर शैली का विकास होगा। CO3: सहज प्रस्तुतीकरण में सक्षम होंगे।

M.A.[Sanskrit]	
Programme Outcome (POs)	
PO1	Will be able to realise human values. मानवीय मूल्यों को समझ सकेंगे।
PO2	Will become a responsible & dutiful citizen. एक जिम्मेदार और कर्तव्यपरायण नागरिक बनेंगे।
PO3	Will develop a sense of social service समाज सेवा की भावना विकसित होगी
PO4	Will have critical temper आलोचनात्मक स्वभाव रहेगा
PO5	Will develop a creative ability रचनात्मक क्षमता का विकास होगा
PO6	will be eligible for admissions to Research programs and also to appear for various competitive exams of PG level eligiblity. अनुसंधान कार्यक्रमों में प्रवेश के लिए और पीजी स्तर की पात्रता की विभिन्न प्रतियोगी परीक्षाओं में बैठने के लिए भी पात्र होंगे।
Programme Specific Outcome (PSOs)	
PSO1	Fully able to understand the history of Sanskrit language. संस्कृत भाषा के इतिहास को पूरी तरह से समझने में सक्षम
PSO2	able to compare Sanskrit language with other languages through linguistics. भाषा विज्ञान के माध्यम से अन्य भाषाओं के साथ संस्कृत भाषा की तुलना करने में सक्षम।
PSO3	able to acquire mature knowledge of Sanskrit grammer. संस्कृत व्याकरण का सही ज्ञान प्राप्त करने में असमर्थ।
PSO4	able to understand ancient text written in *Pali, Prakrit* and *Sanskrit.* पाली, प्राकृत और संस्कृत में लिखे गए प्राचीन ग्रंथों को समझने में सक्षम।
PSO5	able to acquire adequate knowledge of Ancient Indian Culture and Society. प्राचीन भारतीय संस्कृति और समाज का पर्याप्त ज्ञान प्राप्त करने में सक्षम।
PSO6	able to develop competencies and professional skills for conducting teaching, research in various fields in Sanskrit. संस्कृत में विभिन्न क्षेत्रों में शिक्षण, अनुसंधान के संचालन के लिए दक्षताओं और पेशेवर कौशल विकसित करने में सक्षम।

PSO7	able to understand Sanskrit Sanskrit literature, Vedic Literature and ancient Indian philosophy and Upanishads. संस्कृत संस्कृत साहित्य, वैदिक साहित्य और प्राचीन भारतीय दर्शन और उपनिषदों को समझने में सक्षम।

Course Outcome- M.A.[Sanskrit]

Semester-I

Course Outcome (COs): पाठ्यक्रम के अध्ययन के पश्चात् छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र वेद	CO1: वैदिक ऋचाओं तथा वैदिक देवताओं को समझने में दक्षता प्राप्त होगी। CO2: शब्द ज्ञानकोश में वृद्धि। CO3: वेद की वैज्ञानिकता का ज्ञान। CO4: वैदिक संस्कृति का ज्ञान। CO5: छात्र सस्वर वेदपाठ में दक्षता प्राप्त करेंगे।
द्वितीय प्रश्न–पत्र पालि, प्राकृत, अपभ्रंश तथा भाषा विज्ञान	CO1: पालि, प्राकृत, अपभ्रंश तथा भाषा विज्ञान को समझने में दक्षता प्राप्त होगी। CO2: मातृभाषा के अतिरिक्त पाली, प्राकृत एवं अपभ्रंश का भी ज्ञान प्राप्त होगा। CO3: विद्यार्थियों को बहुभाषीय बनाने के उद्देश्य की प्राप्ति होगी। CO4: छात्र ध्वनि परिवर्तन के कारणों को जानने में दक्षता प्राप्त करेंगे। CO5: छात्र अर्धपरिवर्तन को समझने में दक्ष होंगे।
तृतीय प्रश्न–पत्र दर्शन	CO1: न्याय दर्शन तथा वेदान्त दर्शन समझने में दक्षता प्राप्त होगी। CO2: भारतीय तर्क मीमांसीय परम्परा का ज्ञान प्राप्त होगा। CO3: भारतीय ज्ञान मीमांसीय परम्परा का ज्ञान प्राप्त होगा। CO4: वेदान्त परम्परा के उद्देश्य और विकास को जानेगा। CO5: तर्क और ज्ञान परम्परा के समकालीन प्रासंगिकता को जानने में सक्षम होगा।
चतुर्थ प्रश्न–पत्र व्याकरण (लघु सिद्धान्त कौमुदी)	CO1: शब्दरूप तथा धातुरूप समझने में प्रौढ़ता प्राप्त होगी। CO2: व्याकरण की समझ में वृद्धि होगी। CO3: भारतीय ज्ञान मीमांसीय परम्परा का ज्ञान प्राप्त करेगा। CO4: वेदान्त परम्परा के उद्देश्य और विकास को जानेगा। CO5: तर्क और ज्ञान परम्परा के समकालीन प्रासंगिता को जानने में सक्षम होगा।
पंचम प्रश्न–पत्र काव्यशास्त्र (काव्य प्रकाश)	CO1: काव्यशास्त्र के अध्ययन में प्रौढ़ता प्राप्त होगी। CO2: आचार्य मम्मर के सन्दर्भ में जानकारी प्राप्त होगी। CO3: काव्यप्रकाश का तवस्तृत परिचय प्राप्त करेगा।

	CO4: काव्यप्रकाश के उल्लासों की व्याख्या को जानेगा। CO5: काव्यप्रकाश के परिकर अलंकारों को जानेगा।
षष्ठ प्रश्न–पत्र श्रीमद्भगवद्गीता	CO1: श्रीमद्भगवद्गीता के प्रतिपाद्य को समझने में दक्षता प्राप्त होगी। CO2: यथार्थ ज्ञान प्राप्ति। CO3: आत्मज्ञान की प्राप्ति। CO4: कर्मठ व्यक्तित्व का विकास। CO5: मानसिक अवसाद से मुक्ति।

Semester-II

Course Outcome (COs): पाठ्यक्रम के अध्ययन के पश्चात् छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र निरूक्त एवं वैदिक साहित्य का इतिहास	CO1: वैदिक शब्दकोष तथा वैदिक साहित्य का इतिहास समझने में दक्षता प्राप्त होगी। CO2: निरूक्त की हिन्दी व्याख्या को जानेंगे। CO3: वेदों के काल के सम्बन्ध में प्राच्य और पाश्चात्य मत को जानेंगे। CO4: संहिता साहित्य और वैदिक वाङ्मय का इतिहास जानेंगे। CO5: ब्राह्मण, आरण्यक और उपनिषदों का ज्ञान प्राप्त करें।
द्वितीय प्रश्न–पत्र तर्कभाषा एवं सांख्य तत्व कौमुदी	CO1: न्याय तथा सांख्य दर्शन में दक्षता प्राप्त होगी। CO2: अनुमान एवं प्रामाण्यवाद का ज्ञान प्राप्त करेंगे। CO3: सांख्य तत्व कौमुदी का परिचय प्राप्त करेंगे। CO4: सांख्य तत्व, कौमुदी के 11वीं से 21वीं कटिका तक की व्याख्या जानेंगे। CO5: न्याय तथा सांख्य के तत्व मीमांसा एवं ज्ञान मीमांसा को जानेंगे।
तृतीय प्रश्न–पत्र मौखिक परीक्षा	CO1: वाग्–व्यवहार में दक्षता प्राप्त होगी। CO2: सम्प्रेषणीयता में दक्षता प्राप्त होगी। CO3: समभाषण में दक्षता प्राप्त होगी। CO4: तर्क व्यवहार में दक्षता प्राप्त होगी। CO5: व्यक्तित्व विकास।
चतुर्थ प्रश्न–पत्र संस्कृत व्याकरण	CO1: कृदन्त एवं तद्धित प्रत्यय के प्रयोग में प्रौढ़ता प्राप्त होगी। CO2: कृत्य प्रक्रिया को जानेगा। CO3: पूर्ण कृदन्त हो जानेगा। CO4: उत्तर कृदन्त को जानेगा। CO5: मत्वर्थीय को जानेगा।
पंचम प्रश्न–पत्र काव्यशास्त्र एवं प्रकरण (ध्वन्यालोकः)	CO1: ध्वनि सिद्धान्त को समझने में प्रौढ़ता प्राप्त होगी। CO2: ध्वन्यालोक का परिचयात्मक ज्ञान प्राप्त होगा। CO3: प्रथम उद्योत काटिका से समाप्ति पर्यंत तक अध्ययन। CO4: मृच्छकटिकय अंक 1 से 10 तक अध्ययन करना। CO2: काव्यशास्त्रीय ज्ञान परम्परा को जानेगा।

षष्ठ प्रश्न–पत्र संस्कृत वाङ्मय में प्रतिपादित सभ्यता एवं संस्कृति की रूपरेखा	CO1: संस्कृत वाङ्मय में प्रतिपादित सभ्यता एवं संस्कृति को समझने में दक्षता प्राप्त होगी। CO2: महाकाव्यकालीन सभ्यता एवं संस्कृत को जानेगा। CO3: वर्णाश्रम व्यवस्था, पुरुषार्थ चतुष्टय, संस्कारों इत्यादि प्राचीन भारतीय परम्परा को जानेगा। CO4: भारतीय आगम एवं निगम परम्परा को जानेगा। CO5: प्राचीन भारत में स्त्री एवं दलितों की स्थिति की जानकारी।

Semester-III

Course Outcome (COs): पाठ्यक्रम के अध्ययन के पश्चात् छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र GR-A: काव्यशास्त्र	CO1: इस पाठ्यक्रम के द्वारा छात्र काव्य गुण तथा काव्य दोष आदि समझने में दक्ष होगा। CO2: काव्य प्रकाश के पंचम से अष्टम उल्लास तक की व्याख्या की समझ। CO3: काव्य मीमांसा के प्रथम परिच्छेद को जानेगा। CO4: काव्यप्रकाश के साहित्यिक सौन्दर्य को जानेगा। CO5: काव्य मीमांसा की सामान्य समझ।
प्रथम प्रश्न–पत्र GR-B: न्याय दर्शन	CO1: इस पाठ्यक्रम के द्वारा छात्र न्याय सूत्र वात्स्यायन भाष्य समझने में दक्षता प्राप्त करेगा। CO2: भारतीय व्याकरण परम्परा को जानेंगे। CO3: शब्द एवं अर्थ को जानेंगे। CO4: तर्कवाक्य को जानेंगे। CO5: न्यायवाक्य एवं मुक्ति को समझेंगे।
प्रथम प्रश्न–पत्र GR-C: ऋग्वेद द्वितीय मण्डल	CO1: ऋग्वेद के सूक्तों को समझने और पढ़ने में दक्ष होगा। CO2: वैदिक परम्परा में श्रृत की अवधारणा को जानेंगे। CO3: ऋग्वेद के तत्वमीमांसीय अवयवों को समझेंगे। CO4: ऋग्वेद के आचारमीमांसीय अवयवों को जानेंगे। CO5: सूक्तों के अर्थ निरूपण को जानेगा।
द्वितीय प्रश्न–पत्र GR-A: दशरूपक	CO1: दशरूपक के अध्ययन के द्वारा छात्र नाट्यशास्त्रीय शब्दों को तथा नाटक के समस्त अंगों को समझने में दक्ष होगा। CO2: दशरूपक के प्रकाशों को जानेगा। CO3: दशरूपक के प्रतिपाद्य को जानेगा। CO4: दशरूपक के साहित्यक अवबोध को जानेगा। CO5: दशरूपक के कथ्य की उपादेयता को जानेंगे।

द्वितीय प्रश्न–पत्र GR-B: योग दर्शन	CO1: योगदर्शन के अध्ययन के द्वारा तथा यौगिक क्रियाओं के फलरूवरूप छात्र आरोग्य लाभ प्राप्त करने में दक्ष होगा। CO2: योग के विभिन्न प्रारूप को जानेंगे। CO3: आसन–व्यायाम को जानेंगे। CO4: पोतजल की परम्परा को जानेंगे। CO5: योग और भारतीय परम्परा का अध्ययन करेंगे।
द्वितीय प्रश्न–पत्र GR-C: शुक्ल यजुर्वेद	CO1: शुक्ल यजुर्वेद के अध्ययन के द्वारा छात्र कर्मकाण्डीय प्रक्रिया में दक्ष होगा। CO2: वैदिक परम्परा को जानेंगे। CO3: यजुर्वेद के अवयवों को जानेंगे। CO4: शुक्ल यजुर्वेद में वर्णित दार्शनिक आयामों को जानेगा। CO5: शुक्ल यजुर्वेद के अर्थ को जानेगा।
तृतीय प्रश्न–पत्र GR-A: महाकाव्य	CO1: इस पाठ्यक्रम के अध्ययन से छात्र नैषधीयचरितम् तथा शिशुपालवधम् जैसे प्रौढ़ महाकाव्य को पढ़ने और समझने में दक्ष होगा। CO2: नैषधीय के श्लोकों के अर्थ को समझेगा। CO3: शिशुपाल वध के आलोचनात्मक प्रश्न को जानेगा। CO4: दोनों रचनाओं के साहित्यक अवदानों को जानेगा। CO5: दोनों रचनाओं के हिन्दी अनुवाद को समझेगा।
तृतीय प्रश्न–पत्र GR-B: शांकर दर्शन	CO1: इस पाठ्यक्रम के अध्ययन से छात्र आचार्य शंकर के दर्शन को समझने में दक्ष होगा। CO2: अद्वैत परम्परा को समझने में दक्ष होगा। CO3: ब्रह्म सूत्र पर शांकर भाष्य को जानेगा। CO4: अध्यासम्भाष्य को जानेगा। CO5: पंचदशी प्रकरण को जानेगा।
तृतीय प्रश्न–पत्र GR-C: प्रातिशाख्य	CO1: इस पाठ्यक्रम के अध्ययन से छात्र ऋग्वेद के प्रातिशाख्य को समझने में दक्ष होगा। CO2: सूक्त सं0 1–12 तक का हिन्दी अर्थ समझेगा। CO3: वैदिक स्वरांकनों का अवबोध करेगा। CO4: पद पाठ में दक्ष होगा। CO5: विवेचित सूक्तों के व्याकरणात्मक टिप्पणियों को समझेगा।
चतुर्थ प्रश्न–पत्र अनुवाद मीमांसाशास्त्र	CO1: छात्र मीमांसादर्शन तथा संस्कृत वाग्–व्यवहार में प्रौढ़ता प्राप्त करेगा। CO2: गुरु परम्परा को जानेगा। CO3: भाट्य परम्परा से परिचित होगा। CO4: कर्म सिद्धान्त को जानेगा। CO5: सृष्टि की व्याख्या को समझेगा।
पंचम प्रश्न–पत्र शिलालेख, भारतीय संस्कृति तथा दर्शन	CO1: प्राचीन शिलालेख तथा भारतीय संस्कृति में दक्षता प्राप्त करेगा। CO2: गुप्त वंश के प्रस्तर लेख का अध्ययन करेगा। CO3: प्राचीन भारतीय संस्कृत का अध्ययन करेगा।

	CO4: भारतीय दार्शनिक परम्परा को जानेगा। CO5: जैन तथा बौद्ध दर्शन के प्रमुख संप्रदाय का अध्ययन करेगा।
षष्ठ प्रश्न–पत्र भारतीय दर्शन का सर्वेक्षण	CO1: भारतीय दर्शन का समग्र ज्ञान प्राप्त होगा। CO2: आस्तिक सम्प्रदायों का ज्ञान प्राप्त होगा। CO3: चारवाक एवं जैन मत का ज्ञान प्राप्त होगा। CO4: भारतीय दार्शनिक आचार्यों के सिद्धान्तों को जानेगा। CO5: भारतीय दर्शन के विचारणीय पक्षों को जानेगा।

Semester-IV

Course Outcome (COs): पाठ्यक्रम के अध्ययन के पश्चात् छात्र सक्षम होगाः	
प्रथम प्रश्न–पत्र GR-A: शिवराजविजयम् वृत्तरत्नाकर एवं पद्य रचना	CO1: ऐतिहासिक उपन्यासों का ज्ञान, छन्द ज्ञान तथा छन्द रचना में प्रौढ़ता प्राप्त होगी। CO2: शिवराज विजयम के अनुवाद को जानेगा। CO3: शिवराज विजयम के निःश्वासों को जानेगा। CO4: वृत्तस्तनाकार से अवगत होंगे। CO5: पद्य रचना सौष्ठव से परिचित होंगे।
प्रथम प्रश्न–पत्र GR-B: न्यायसिद्धान्तमुक्तावली	CO1: पद और पदार्थ ज्ञान में प्रौढ़ता प्राप्त होगी। CO2: कारण एवं अन्यथा की स्थिति को जानेगा। CO3: लौकिक संनिकर्ष से अवगत होगा। CO4: प्रत्यक्ष प्रमाण के अपव्ययों को जानेगा। CO5: सामान्य, विशेष एवं समवय को जानेगा।
प्रथम प्रश्न–पत्र GR-C: स्वर प्रकरण (स्वर वैदिकी)	CO1: वैदिक मंत्रों के उच्चारण में प्रौढ़ता प्राप्त होगी। CO2: ऊष्म एवं द्विर्ध थोषों से परिचित होगा। CO3: वैदिक लय परम्परा से परिचित होगा। CO4: स्वर विधान के परम्परा से परिचित होगा। CO5: मंत्र उच्चारण शक्ति में दक्ष होगा।
द्वितीय प्रश्न–पत्र GR-A: रसगंगाधर एवं वेणीसंहार	CO1: संस्कृत प्रौढ़ काव्यशास्त्र का ज्ञान होगा। CO2: ध्वनि भेद का ज्ञान प्राप्त होगा। CO3: रस प्रकरण को जानेगा। CO4: वेणी संचार के काव्यशास्त्रीय के महत्व को जानेगा। CO5: वेणी संचार के अंकों के अर्थ एवं व्याख्या को जानेगा।
द्वितीय प्रश्न–पत्र GR-B: योगसूत्र	CO1: योग के तत्वों को समझने में प्रौढ़ता प्राप्त होगी। CO2: साधनापद के सूत्रों का अर्थ जानेगा। CO3: माण्डुक्यों उपनिषद के तत्वों को जानेगा। CO4: माण्डुक्य कारीका के अर्थ को जानेगा। CO5: योग सूत्र पर व्यास–भाष से परिचित होंगे।

द्वितीय प्रश्न–पत्र GR-C: शतपथ ब्राह्मण	CO1: शतपथ ब्राह्मण ग्रन्थ पढ़ने में प्रौढ़ता प्राप्त होगी। CO2: शतपथ ब्राह्मण में प्रतिपादित कथाओं से परिचित होगा। CO3: शतपथ ब्राह्मण में यज्ञ प्रक्रिया से अवगत होगा। CO4: शतपथ ब्राह्मण में प्रतिपादित इष्टीयाँ से अवगत होगा। CO5: शायण भाषा से अवगत होगा।
तृतीय प्रश्न–पत्र GR-A: मौखिकी	CO1: वाग्–व्यवहार में प्रौढ़ता प्राप्त होगी तथा शास्त्र परीक्षण में सुगमता होगी। CO2: सम्भाषण शैली में दक्ष होगा। CO3: तर्क–पटुता आएगी। CO4: सम्प्रेक्षणीयता में दक्षता प्राप्त होगी। CO5: प्रश्नोत्तर शैली में वृद्धि होगी।
तृतीय प्रश्न–पत्र GR-B: मौखिकी	CO1: वाग्–व्यवहार में प्रौढ़ता प्राप्त होगी तथा शास्त्र परीक्षण में सुगमता होगी। CO2: सम्भाषण शैली में दक्ष होगा। CO3: तर्क–पटुता आएगी। CO4: सम्प्रेक्षणीयता में दक्षता प्राप्त होगी। CO5: प्रश्नोत्तर शैली में वृद्धि होगी।
तृतीय प्रश्न–पत्र GR-C: मौखिकी	CO1: वाग्–व्यवहार में प्रौढ़ता प्राप्त होगी तथा शास्त्र परीक्षण में सुगमता होगी। CO2: सम्भाषण शैली में दक्ष होगा। CO3: तर्क–पटुता आएगी। CO4: सम्प्रेक्षणीयता में दक्षता प्राप्त होगी। CO5: प्रश्नोत्तर शैली में वृद्धि होगी।
चतुर्थ प्रश्न–पत्र वेद एवं निरूक्त	CO1: वैदिक सूक्तों तथा वैदिक शब्दों का ज्ञान प्राप्त करने में दक्षता प्राप्त होगी। CO2: बहिस्तुत शिलालेख का ज्ञान प्राप्त होगा। CO3: एवेस्ता शिलालेख का ज्ञान प्राप्त होगा। CO4: निरूक्त के स्पलम अध्याय का ज्ञान प्राप्त होगा। CO5: निरूक्त के महत्व को जानेगा।
पंचम प्रश्न–पत्र भारतीय शास्त्र एवं शास्त्रकार	CO1: भारतीय शास्त्रकारों जैसे पाणिनि, पतंजलि, कात्यायन एवं कौटिल्य इत्यादि के जीवन चरित को समझने में दक्षता प्रापत होगी। CO2: आयुर्वेद शास्त्र का परिचय प्राप्त होगा। CO3: ज्योतिष शास्त्र का परिचय प्राप्त होगा। CO4: मुहुर्त विचार। CO5: कर्म एवं कर्मफल।
षष्ठ प्रश्न–पत्र ज्योतिष विद्या	CO1: ज्योतिष वेद नामक पुरूष का नेत्र कहा जाता है। इसके अध्ययन से छात्र अपने जीवन के झंझावातों से उसी प्रकार उबर सकते हैं जैसे तेज बारिस में छाते के द्वारा अपने आप को बचाया जा सकता है। CO2: पंचांग संबंधी आवश्यक ज्ञान।

	CO3: राशि का ज्ञान। CO4: मुहुर्त विचार। CO5: कर्म एवं कर्मफल।

B.A.[Sociology]	
Programme Outcome (POs)	
PO1	Realisation of human values.
PO2	Responsible and dutiful citizens
PO3	Sense of social services
PO4	Critical temper
PO5	Creative ability
Programme Specific Outcome (PSOs)	
PSO1	Understand the basic concept of emergence of social thought
PSO2	Develop an understanding of various aspect of doing social science research with focus on methodology making research proposal, doing fieldwork, and report writing.
PSO3	Understand the thoughts of various indian social thinkers.

Course Outcome - B.A. [Sociology]

Semester-I

After completion of the Course, the student will:

Paper- 1 Introduction to Sociology (BASOC101)	**CO1:** Be aware of concept of nature and scope of sociology. **CO2:** able to understand about concept of emergence of sociology. **CO3:** To acquire knowledge about social perspective. **CO4:** Be aware about relations of sociology from other social sciences. **CO5:** Be aware about basic concept of society.
Paper – II Introduction to Indian Society (BASOC102)	**CO1:** To acquire knowledge about indian society and it's characteristics. **CO2:** To acquire knowledge about Basics foundation of indian social structure. **CO3**: to know about weacker classes. **CO4:** To acquire knowledge about minorties . **CO5:** will be able to understand about castism.

Semester-II

After completion of the Course, the student will:

Paper- 1 Introduction to Social Systems (BASOC201)	**CO1:** Will be able to understand about social system. **CO2:** Able to know how to takabout caste class and education. **CO3:** will be Able to know about process of social control . **CO4:** will be able to understand about social change. **CO5:** will be able to understand about causes of social change.
Paper – II Indian Institutions and emerging Trends	**CO1:** Will be able to understand about History of india society. **CO2:** will be understand about indian social and emerging trend. **CO3:** will be able to know about caste system. **CO4:** will be know about family and kinship.

(BASOC202)	**CO5:** To aquire knowledge about marriage and joint family.

Semester-III

After completion of the Course, the student will:

Paper- 1 Social Control and Change (BASOC301)	**CO1:** Will have the knowledge of social control, family, religion. **CO2:** .Be able to know about the forms of social change and evolution. **CO3:** will be able to know about causes of social change. **CO4:** Will be able to know about social movement. **CO5:** will be able to know about cultural factor.
Paper – II Social Problem (BASOC302)	**CO1:** Will understand about concept of social problems . **CO2:** will able to know about social disorganization . **CO3:** Will know about problems of population growth. **CO4:** will known about juvenile delinquency **CO5:** will known about child labour, white collar crime.

Semester-IV

After completion of the Course, the student will:

Paper- 1 Theories of Social Control and Change (BASOC401)	**CO1:** Will acquire Issues and Basic concept of social control. **CO2:** Will be able to understand about theories of social change. **CO3:** will acquire about process of social change in india. **CO4:** will understand about Elements of society. **CO5:** will understand about westernization, modernization.
Paper – II Social Welfare and Legislation (BASOC402)	**CO1:** Be acquainted with the knowledge and concept of social welfare. **CO2:** Be aware of the concept of social welfare &legislation . **CO3**: To acquire the knowledge about Backward class . **CO4:** will be able about concept of gender inequality. **CO5:** will be able about social reconstruction.

Semester-V

After completion of the Course, the student will:

Paper- 1 Emergence of Social Thought (BASOC501)	**CO1:** Will be able to understand the Meaning of sociology on intellectual base. **CO2:** will be acquainted about theory of August comte. **CO3**: Understand about social evolution. **CO4:** understand about theory of Durkheim. **CO5:** To be know about social solidarity.
Paper – II Social Research and Methodology (BASOC502)	**CO1:** Be acquainted with the knowledge and method of technology. **CO2:** To know about differences between social research and social survey. **CO3**: To know about steps of social research. **CO4:** To know about Data collection. **CO5:** Be acquire about case study method.
Paper – III Indian Social Thinker-I (BASOC503)	**CO1:** Be aware of Evolution of Indian social thought. **CO2:** Will be able to understand about Doctrine of karma.. **CO3**: Able to know about purushartha.

	CO4: Able to know about Gandhi's Trusteeship. **CO5:** Able to know about social justice and caste.

Semester-VI

After completion of the Course, the student will:

Paper- 1 Social Thoughts (BASOC601)	**CO1:** Understand the concept of power &authority. **CO2:** Be able to understand about class and class conflict. **CO3:** Be aware of sociological school. **CO4:** To know about family, power and authority. **C05:** To know about Development of social thought in India.
Paper – II Social Statistics (BASOC602)	**CO1:** Acquainted about meaning, method of statistics. **CO2:** To know about measurement. **CO3:** Will gain an ability of Median, mode. **CO4:** will be able to know about types of mode. **CO5:** will be able to know about co- relations.
Paper – III Indian Social Thinker-II (BASOC603)	**CO1:** Able to express about Arbindo : concept of superman, nationalism. **CO2**: Able to know about international relation. **CO3:** Able to know about spiritualism, yoga. **CO4:** will gain ability about Brahma samaj. **CO5:** will be able about comparative study.

Program Outcomes of Master of Arts (M.A.) (PO,s)

PO1	The Program aim at making the students self-reliant with necessary proficiency for a wide variety of career with entrepreneurial skills and placement.
PO2	The Program also empowers the students to appear for various competitive examination or research program of their choice
PO3	The M.A. Program enables the students to acquire the knowledge with human values farming the base to deal with various problems in life with courage and humanity
PO4	The students acquire in depth knowledge in the field of social, Literature and humanities
PO5	Practical training/exposure through field visit, project work, expert lectures, demonstration, workshop and seminar gives hand-on experience to students

Programme Specific Outcome (PSOs)

PSO1	Assess the health status of population and their related determinants of health and illness
PSO2	Produced researchers with scientific and critical thinking, as well as disciplinary knowledge required for professional jobs in the academy or in other fields
PSO3	Develop knowledgeable and skilled human resources which is employable at the various sectors related to Home Science
PSO4	Apply critical thinking to analyze and problem solve the developmental

	concerns from birth to death.
PSO5	Integrate the creativity, innovation or entrepreneurship in ways that produce value

Course Outcome - M.A. [Sociology]
Semester-I

After completion of the Course the student will be able to:	
Paper-I (Classical social thinker)	**CO1:** Be aware of concept of Auguste comte, low of three stages. **CO2:** able to understand about concept of Herbert spencer **CO3:** To acquire knowledge about collective represention **CO4:** Be aware about concept of Max weber **CO5:** Be aware about alienation, class and class struggle.
Paper-II (Contemporary Indian Society)	**CO1:** To acquire knowledge about indian social structure, national integration. **CO2:** To acquire knowledge about planned development in india, rural and urban development. **CO3**: to know about status of women in india, problem of population. **CO4:** To acquire knowledge about communalism, regionalism. **CO5:** will be able to understand about castism.
Paper-III (Sociology of Development)	**CO1:** Will be able to understand about sociology of development. **CO2:** Able to know how to takabout sociology of development, Models of development. **CO3:** will be Able to know about process of Development, role of caste social change &Development. **CO4:** will be able to understand about five years plan, community. **CO5:** will be able to understand about development programs and green revolution.
Paper-IV (a) (Sociology of india))	**CO1:** Will be able to understand about History of sociology in india. C02: will be understand about indian social structure. **CO3:** will be able to know about cultural pluralism and National Integration. **CO4:** will be know about Ethnicity. **CO5:** To aquire knowledge about social Inequality.
Paper-IV (b) (Urban sociology)	**CO1:** Will have the knowledge of urban society. **CO2:** Be able to know about concept of city **CO3:** will be able to know about origin and Growth of Urban center's. **CO4:** Will be able to know about urbanism As a way of life. **CO5:** Will be able to know about urban Ecology.
Paper- V (Continuity and change in india) (Skill Development)	**CO1:** Will understand about scheduled caste, scheduled Tribes. **CO2:** will able to know about Historicity of planning. **CO3:** Will know about Tribal Development, Approaches, Measures impact. **CO4:** will known about Rural Development, concept, programs. **CO5:** will known about Urban Development, problems of urban planning. .
Paper-Vl (Group process and group Dynamics)	**CO1:** Will acquire Issues and Basic Assumption of group Dynamics. **CO2:** Will be able to understand about structure and processes of social group.

	CO3: will acquire about Dynamic Interaction, leadership. **CO4:** will understand about Elements of Social Behaviour, social Motives. **CO5:** will understand about Affiliation and power.

Semester-II

After completion of the Course the student will be able to:	
Paper-I (Classical social thinker - ll)	**CO1:** Be acquainted with the knowledge of conception of sociology. **CO2:** Be aware of the concept of scientific sociology, social action. **CO3**: To acquire the knowledge regarding the social system pattern variable. **CO4:** will be able about concept of R.k.Merton, Middle range theory. **CO5:** will be able about Frankfurt school : establishment and objective.
Paper-II (Social Research and Statistics)	**CO1:** Will be able to understand the Meaning of social research steps. of social research. . **CO2:** will be acquainted about Hypothesis research ddesign. **CO3**: Understand the types of data, sampling, and method of sampling. **CO4:** understand about schedule, questionnaire, case study method. **CO5:** understand about statistics in social research, measurement of central tendency.
Paper-III (Rural sociology)	**CO1:** Be acquainted with the knowledge of Rural society. **CO2:** To know about new concept of little community and peasant community. **CO3**: To know about Rural social structure. **CO4:** To know about class, caste, jajmani system. **CO5:** Be acquire about changes in rural society.
Paper-IV (a) (Indian sociological perspective)	**CO1:** Be aware of Meaning and definition of sociological perspective Indological perspective. **CO2:** .Will be able to understand about structural functional perspective. **CO3**: Able to know about Marxian perspective. **CO4:** Able to know about subaltern perspective. **CO5:** Able to know about Civilization perspective.
Paper-IV (b) (Women and society)	**CO1:** Understand the concept of visibility and invisibility of women, women's studies, nature and scope. **CO2:** Be able to understand about role of women in Economy, polity and social structure. **CO3:** Be aware of women in Development and Developing societies . **CO4:** To know about family, power and authority. **CO5:** To know about women and Democracy.

Paper - V (Women and social change in india) (Skill Development)	**CO1:** Acquainted about Amethodology for women's studies . **CO2:** To know about perspective for women's studies, Critical Issues. **CO3:** Will gain an ability to women and change in social organization . **CO4:** will be able to know about types of family, lines of Decent. **CO5:** will be able to know about changing position of women - Impact of development.
Paper-Vl (Demographic Dimension and community Health)	**CO1:** Able to express about population, fertility, morbidity &Mortality profile. . **CO2**: Able to control many kind of diseases. C03: Able to know about Environment, population, and community Health. C04: will gain ability about primary health care. C05: will be able about Ethnomedicine.

Semester-III

After completion of the Course the student will be able to:	
Paper-I (Sociological Perspective)	**CO1:** Be acquainted with meaning and concept of sociological perspective. **CO2:** Be acquired about structure - functional perspective. **CO3:** To be know about symbolic perspective, **CO4:** To be know about structural perspective. **CO5:** To be know about Ethnomethdology.
Paper-II (Social Anthropology)	**CO1:** Be acquainted with the knowledge and concept of social anthropology . **CO2:** Able to know the concept of culture and theory of cultural development. **CO3:** to be known about Family in primitive societies. **CO4:** To be know about family in primitive societies types, characteristics. **CO5:** able to know about Marriage in primitive societies.
Paper-III (Sociology of Movement)	**CO1:** Understand the meaning and concept of social Movement. **CO2**: To be able about social base of social movement. **CO3**: knowledge about role of political organization and media in social movement. **CO4:** To be know about Evolution theory of social movement. **CO5:** To be know about different types of social movement.
Paper-IV (a) (Peasant society and social change)	**CO1:** Have knowledge of peasant society power structure in rural India. **CO2**: Able to know about social issues and strategy for rural development. **CO3:** Able to know about different types of movement **CO4:** Able to know about rural Development program's **CO5:** Able to know about trends of change's in rural society.
Paper-IV (b) Urbanization and	**CO1:** Be able to understand about concept of Migration, urbanization, industrialization in india.

social change	**CO2:** Able to know about family, religion. **CO3:** understand about urban power structure. **CO4:** understand about urban planning and restructuring of indian cities. **CO5:** understand about urban slums and floating population.
Paper-V Theories of group Interaction (Skill Development)	**CO1:** Acquire.the knowledge of theories of social interaction. **CO2:** understand about Maslow's hierarchy of Needs. **CO3:** will gain the knowledge of S-R theory. **CO4:** will know about social interaction. **CO5:** will understand about social Deprivation, models, Techneiques of Measurement.
Paper-VI Gender and Development	**CO1:** Will be aware of the concept of Gender Discrimination role conflict. **CO2**: will be aware about women and patriarchy, position in society. **CO3:** will be know about feminist movement. **CO4:** will be know about role Adjustment. **CO5:** will be know about sociologist Feminist.

Semester-IV

After completion of the Course the student will be able to:	
Paper-I (Neo sociological Theory)	**CO1:** Acquire in-depth knowledge of meanings of modernity, concept, theory of modernity.
	CO2: Will be aware of Neo functionalism. **CO3:** To inculcate expertise knowledge of Neo Marxist theory. **CO4:** To know about structuralism and neostructurlism. **CO5:** know about post modernity idea and theory.
Paper-II (Globalization and Society)	**CO1:** To understand the concept, and meaning definition of globalization. **CO2**: Able to understand about Agency of globalization. **CO3:** know about Modernization, capitalism and globalization. **CO4:** know about benefit's and disadvantage of globalization. **CO5:** know about process of globalization.
Paper - III **(Sociology of environment**	**CO1:** Awareness about meaning and concept of Environment. **CO2**: Knowledge about social ecology, impact of ecology on social life. **CO3**: Able to know about the environment &ecology . **CO4:** know about considerable issues of environment & Development. **CO5:** know about environmental idea &movement .
Paper - IV (a) **Criminology**	**CO1:** Able to understand meaning and scope of criminology. . **CO2**: Able to know about factor's of crime. **CO3:** Able to know about juvenile delinquency. **CO4:** able to know about punishment, objective forms and theories.

	CO5: know about Terrorism, alcoholism, drugs addiction.
Paper-IV (b) Gender Mobility and change	**CO1:** Will be aware women's role in production procr-Domestic. **CO2**: Knowledge about women's work in formal and informal sector. **CO3:** will be aware about Migration and women, **CO4:** will be aware about women and Development. **CO5:** know about women's role in struggles for change.
Paper-V Industrial sociology (Skill development)	**CO1:** Be aware of meaning of nature and scope of Industrial sociology. **CO2:** Will be able to know about society and evolution of industrialization. **CO3:** Be understand about indian social structure. **CO4:** Be aware about process of industrial society. **CO5:** Be aware about problems of Automation.
Paper-Vl Population Growth and policies	**CO1:** Acquire the knowledge about the concept of optimism population. **CO2:** To be know about trends of population growth in third world. **CO3:** To be know about perspective of population and policies. **CO4:** To be know about reason's of population. To be know about policies.

B.A.[Geography]	
Programme Outcome (POs)	
PO1	Will be able to realise human values.
PO2	Will become a responsible & dutiful citizen.
PO3	Will develop a sense of social service
PO4	Will have critical temper
PO5	Will develop a creative ability
PO6	will be eligible for admissions to post-graduate programs for further studies and will be able to appear for various competitive exams of UG level eligiblity.
Programme Specific Outcome (PSOs)	
PSO1	The students would understand the development of the subject and delve around issues suited to the needs of the contemporary world.
PSO2	The students would learn to use geographic understanding of various sub fields such as Physiography, Resources, global economic systems, socio-cultural aspects, rural and urban milieu, environmental and disaster studies and mapping methods.
PSO3	They will be be well informed citizens who can play immense role in the civil society too. They will be able to pursue wide range of careers as planners, administrators, academicians and managers.

Course Outcome

SEMESTER I

Course Title	Course Outcomes
Paper-I Physical Geography - Earth System GEOB 101	1. Understand the functioning of Earth systems in real time and analyze how the natural and anthropogenic operating factors affect the development of landforms. 2. Distinguish between the mechanisms that control these processes. 3. Assess the roles of structure, stage and time in shaping the landforms and apply the knowledge in geographical research. 4. Understand the structure and types of oceans continents. 5. To understand the characteristics of Atlantic and Indian Oceans.
Paper-II Physical Geography – Atmospheric System GEOB 102	1. To understand the different atmospheric phenomena and climate change. 2. Assessing the role of air pressure and Winds of the earth. 3. To analyze the dynamics of the Earth's atmosphere and global climate. 4. 4. To understand the significances of the biosphere. 5. Assessing the role of man in global climate change.
Paper-III Analysis of Geographical Data and Graphical Representation GEOB 103	1. To differentiate between qualitative and quantitative information. 2. To know the nature of various data, different sources and methods of data collection. 3. To apply different methods for data collection and use the data for a comprehensive understanding of the spatial and non spatial phenomena. 4. To present data through graphical and diagrammatic formats.

SEMESTER II

Course Title	Course Outcomes
Paper-I Human Geography GEOB 104	1. Detailed exposure of contemporary relevance of cultural landscape. 2. In-depth knowledge of space and society of cultural regions. 3. Understand the human adaptation to environment. 4. Role of population in our society. 5. Understanding the settlement pattern and population resource relationship.
Paper-II Economic Geography GEOB 105	1. To distinguish different types of economic activities and their utilities. 2. To understand the role of globalisation on spatial distribution of economic activities. 3. To understand the relevance of the theoretical models explaining location of economic activities. 4. To understand the relevance of major World transportation. 5. To understand the cultural and social processes of the world.
Paper-III Field Work - Surveying and Mapping GEOB 106	1. This paper shall enable the students to understand fundamental concepts and issues related to field work and mapping in geographical studies. 2. This course shall enable the students to comprehend about field work and field techniques. 3. Students shall be well-versed with the development of questionnaire and writing the field report.

SEMESTER III

Course Title	Course Outcomes

Paper-I Regional Geography of World: Asia, Europe, North America and Australia GEOB 107	1. To understand the concept and criteria of regionalisation. 2. To locate countries within the regions. 3. To understand the socio-economic and cultural background of development of the countries. 4. To understand the physical and socio-economic characteristics of Asia. 5. To understand the physical and socio-economic characteristics of Europe. 6. To understand the physical, demography and economic characteristics of North America and Australia.
Paper-II Regional Study of Developed and Developing Countries: USA and China GEOB 108	1. To understand the concept and criteria of regionalisation of developed and developing nations. 2. To understand the socio-economic and cultural factors responsible for the development of USA and China. 3. To understand the socio-economic and cultural differences between USA and China. 4. To understand the physical and cultural resources of the USA. 5. To understand the physical and cultural resources of the China.
Paper-III Map Projection and Weather Map GEOB 109	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 weather maps.

SEMESTER IV

Course Title	Course Outcomes
Paper-I Geography of India- I 110	1. Understand the spatial distribution of physical resources of India. 2. Understand the regional division of India on the

	basis of its physical resources. 3. To develop an understanding on how regional development is related to the availability and use of physical resources. 4. To Understand the crops production, properties and spatial distribution in India. 5. To Understand the characteristics of Meso-regions of India.
Paper-II Geography of India- II GEOB 111	1. Understand the spatial distribution of human resources of India. 2. To understand the regional growth in terms of population, industrialisation and urban expansion. 3. To become concerned about the environmental problems generating due to changing trends in population characteristics, industrialization and urbanization. 4. To understand the characteristics of urban and planning regions of India. 5. To understand the characteristics of Environment of India.
Paper-III Elementary Statistics GEOB 112	1. In depth understanding about the sources and use of quantitative and qualitative data in geographical studies. 2. To understand measures of central tendencies, dispersion and correlation to analyse the data and desired results. 3. Understand the use of basic statistical techniques to make available data more comprehensive.

SEMESTER V

Course Title	Course Outcomes
Paper-I History of Geographical Thought GEOB 113	1. In depth understanding about the evolution of geographical thought 2. Detailed knowledge about the paradigms and debates in the geographical studies. 3. Understanding of recent traditions in geography. 4. To understand the development of geography in the modern classical period

	and different school of geography. 5. To understand the dichotomies in geography and different approaches to the study of geography.
Paper-II Earths Dynamic System GEOB 114	1. Understand earth's tectonic and structural evolution, gain knowledge about earth's interior and develop an idea about concept of plate tectonic and resultant landforms. 2. Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms. 3. Understanding crustal mobility and tectonics; with special emphasis on their role in landform development. 4. To understand the concept of cycle of erosion and its related theories. 5. To understand the processes and resultant landforms of different physical features.
Paper-III Climatology GEOB 115	1. Understand the elements of weather and climate, different atmospheric phenomena and climate change. 2. Learn to associate climate with other environmental and human issues. 3. To analyze the dynamics of the Earth's atmosphere and global climate and assess the role of man in global climate change. 4. To understand the characteristics, classification and distribution of Cyclones. 5. To understand the significance of earthquakes and tsunamis.
Paper-IV Map Information GEOB 116	1. Comprehend the concept of scales and representation of spatial data through maps. 2. Interpret topographical, geological and weather maps. 3. Apply various techniques to interpret the map information.

	4. To learn computer awareness for computer cartography.

SEMESTER VI

Paper Title	Course Outcomes
Paper-I Population Geography GEOB 117	1. This paper would bring an understanding of Population Geography along with relevance of demographic data. 2. The students would get an understanding of distribution and trends of population growth in the developed and less developed countries, along with population theories. 3. The students would get an understanding of the dynamics of population. 4. An understanding of the implications of population composition in different regions of the world. 5. An appreciation of the contemporary issues in the field of population studies
Paper-II Agricultural Geography GEOB 118	1. To understand the world agricultural systems, agricultural regions and agricultural land use and differentiate among them. 2. To understand the physical, social, economic and cultural factors responsible for specific agricultural system and land use. 3. To understand the political factors responsible for agricultural development. 4. To understand the Agro-climatic regions and green revolution of India. 5. To understand the land and institutional reforms,

	agricultural planning and policies in India.
Paper-III Remote Sensing and Geographical Information System GEOB 119	1. Students will demonstrate knowledge of the foundations and theories of geographic information systems (GIS) and use the tools and methods of GIS. 2. Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution. 3. Student will be familiar with modern techniques in Geography. 4. Student will be familiar with application of GIS. 5. Students will be prepared to apply their skills in professional careers.
Paper-IV Field Study, Field Trip and Report Writing GEOB 120	1. To learn to write a report through direct observation. 2. To extract relevant information from secondary sources of data and analyse them while report writing. 3. To make the report presentable and comprehensive through maps, tables and diagrams.

M.A.[Geography]	
Programme Outcome (POs)	
PO1	Will be able to realise human values.
PO2	Will become a responsible & dutiful citizen.
PO3	Will develop a sense of social service.
PO4	Will have critical temper
PO5	Will develop a creative ability
PO6	will be eligible for admissions to Research programs and also to appear for various competitive exams of PG level eligiblity.
Programme Specific Outcome (PSOs)	
PSO1	Compare and contrast the theories, philosophies, and concepts in the discipline of geography, including unifying themes of spatial patterns and structures, the interrelationship between people and places, and the interactions between nature and society.
PSO2	Demonstrate an advanced understanding of and ability to differentiate among the various methodologies used in geographic research.
PSO3	Acquire, analyze, evaluate, interpret and critique geographic data and/or research.
PSO4	Communicate mastery of geographic data, theories, philosophies, and concepts in oral, written, and visual forms, with ethical engagement and respect for diversity of individuals, groups, and cultures.

Course Outcome

SEMESTER – I

Course Title	Course Outcomes
Paper-I Contemporary Geographical Thought GEOG 210 (1)	1. A thorough knowledge of the growth, development, philosophical influences and relevance of geography from 1970 to the present time. 2. Knowledge of emerging areas and new theorisations within the discipline 3. An appreciation of the discipline's dynamic and inclusive nature. 4. To understand the Geography in the era of globalization. 5. To understand the Impact of Post colonialism and Gandhianism on Indian Geography.
Paper-II Advanced Climatology GEOG 210 (2)	1. To be able to analyze and interpret climatic data and understand the world climate and climatic regions. 2. To understand the ways how various human activities are influencing world climatic phenomena. 3. To understand the upper air circulation and its influence on regional climate. 4. To understand the mean global atmospheric circulations and disturbances, world climate systems, climatic variability and change. 5. To understand the Climatic change--causes and theories as well as Atmospheric Hazards.
Paper-III Map Projection and Computer Application in Geography GEOG 210 (3)	1. To be able to understand the curvature of the earth and its appropriate representation on a flat surface with the help of suitable projections. 2. To be able to understand the principles, methods, merits and demerits of different types of projection. 3. To understand the basics of computer and use of computers in digital map making. 4. To understand the Computer application and defining of spatial characteristic of point attributes, line attributes and area attributes. 5. To be able to understand the Spatial analysis like point patterns (quadrant analysis and nearest neighbour analysis etc.
Elective Paper-IV (a)	1. To understand the origin of cultures and factors

Cultural Geography GEOG 210 (4) OR	responsible for the origin and development of specific types of culture. 2. To identify cultural hearths and process of diffusion of cultures to the various parts of the world. 3. To understand the role of modernisation and globalisation on existing cultural regions and predict the possible changes. 4. To be able to understand the Racial composition of India and Major Religions of the world. 5. To be able to understand the major cultural realms of the world and space adjustment.
Elective Paper-IV (b) Geography of Tourism and Recreation GEOG 210 (5) OR	1. To understand the concept of leisure, recreation and tourism and how geographical space can define them. 2. To understand the different types of tourism and its impact on environment. 3. To understand the importance of tourism planning in environmental protection. 4. To be able to understand Tourism development in India. 5. To be able to understand role of foreign capital and impact of globalization in tourism.
Elective Paper-IV (c) Geography of Health GEOG 210 (6)	1. Students would be acquainted with the basic concepts of population health from geographical perspectives. 2. Students would get clear understanding about the process of population health transition and its major drivers. In addition, students should recognize the mechanism of how social and economic environment shapes population health. 3. Further, the linkages between global environmental changes and population health should be well understood. 4. To be able to understand aetiology and transmission of major diseases like cholera, malaria, tuberculosis, hepatitis, leprosy, cardiovascular, cancer, AIDS and STDS. 5. To be able to understand healthcare Planning like (i) International level-WHO, UNICEF, Red Cross and (ii) National Level- Government and NGOS.

Elective Paper-V (a) Geography of Resources GEOG 210 (7) OR	1. At the end the course student should learn importance of natural resources. 2. Conservation methods and awareness about community participation. 3. Assessment of role of national and international efforts to mitigate resource problems. 4. To understand the theories of resource use in which rational use of resources. 5. To understand the concept of developed and developing nations.
Elective Paper-V (b) Geography and Eco-System GEOG 210 (8) OR	1. To understand the concept of ecosystem and identify the world's major ecosystem. 2. To understand the importance of maintaining ecosystem balance and its conservation on human life. 3. To know the environmental laws and be able to make people aware of it and work towards environmental protection. 4. To understand the man-environment relationship, activities, resource use and ecological imbalance. 5. To understand the environmental management and its Principles, standards, environmental impact assessment.
Elective Paper-V (c) Bio-Geography GEOG 210 (9)	1. To understand the concept of biogeography and know the important terminologies related to ecology and biosphere. 2. To understand the relationship of different components of biosphere and functioning of the ecosystem. 3. To understand man's role in modifying the natural ecosystem and its consequences. 4. To understand how we can conserve the natural ecosystems. 5. To understand the international and national efforts for conserving biological resources.
Paper-VI Natural Resource Management GEOG 210 (10) (Not for Geography Students)	1) At the end the course student should learn importance of natural resources. 2) Conservation methods and awareness about community participation. 3) Assessment of role of national and international efforts to mitigate resource problems. 4. To understand the sustainable development and conservation, planning, strategies of resources.

	5. To understand the community participation and governance in development of resources.

SEMESTER – II

Course Title	Course Outcomes
Paper-I Interdisciplinary Research Methods and Techniques GEOG 210 (11)	1. The students will be able to understand basic concepts of field research methods and research design in geography. 2. The students will be able to do field work through practical experience and get skills of data collection methods and processing and analysis of obtained data. 3. The students will be able to write dissertation based on field work on given topic. 4. The students will be able to understand qualitative research design. 5. The students will be able to understand data analysis, data classification and tabulation.
Paper-II Advanced Geomorphology GEOG 210 (12)	1. Explain basic principles for development of landforms through time. 2. Make an initial geomorphological fieldwork. 3. Learn the techniques of geomorphological analysis. 4. The students will be able to understand morphometry of drainage basins. 5. The students will be able to understand regional geomorphology of the Peninsular India and applied geomorphology.
Paper-III Remote Sensing, Aerial Image Processing and Field Excursion based Assignment GEOG 210 (13)	1. Overall understanding of potential of Remote Sensing, GIS and GPS 2. Understanding of image interpretation 3. Understanding of GIS analysis workflow and integrated applications in various domains of Geography. 4. The students will be able to understand Aerial photo and image interpretations, mapping land use and land cover and land evaluation. 5. The students will be able to understand physical feature of north, South and Northwest of India by field visit.
Elective Paper-IV (a) Area Study of Africa GEOG 210 (14) OR	1. To know the location and extent of the area along with the location of physical resources of the area. 2. To know the regional divisions of the area along with their demographic characteristics, economic conditions, industrialisation and agricultural development. 3. The students will be able to understand agriculture, industrial development and transport of Africa.

	4. The students will be able to understand regional divisions of Africa. 5. To know the geographical study of Egypt, Sudan, Algeria, South Africa and Zaire.
Elective Paper-IV (b) Area Study of South America GEOG 210 (15) OR	1. To know the location and extent of the area along with the location of physical resources of the area. 2. To know the regional divisions of the area along with their demographic characteristics, economic conditions, industrialisation and agricultural development. 3. The students will be able to understand population growth and distribution of South America. 4. The students will be able to understand agriculture, industrial development and transport of South America. 5. The students will be able to understand geographical study of Brazil, Argentina, Venezuela and Bolivia.
Elective Paper-IV (c) Area Study of South East Asia GEOG 210 (16)	1. To know the location and extent of the area along with the location of physical resources of the area. 2. To know the regional divisions of the area along with their demographic characteristics, economic conditions, industrialisation and agricultural development. 3. The students will be able to understand agriculture, industrial development and transport of South East Asia. 4. The students will be able to understand Colonialism in South East Asia and Post Colonial Scenario. 5. The students will be able to understand geographical study of Indonesia, Malaysia, Vietnam, Thailand, Maynmar and Singapore.
Elective Paper-V (a) Agricultural Geography GEOG 210 (17) OR	1. The students will be able to understand and analyse the historical perspective of agriculture. 2. The students will be able to analyse the agriculture development and productivity and its impacts on various sectors 3. The students will be able to get updated knowledge of contemporary issues and strategies. 4. The students will be able to understand Agriculture in India, like land use and shifting cropping pattern, New trends in Indian agriculture - Green revolution, white revolution, and food deficit and food supply regions. 5. The students will be able to understand problems of Indian agriculture, agricultural policy and Contemporary issues.
Elective Paper-V (b) Population Geography GEOG 210 (18) OR	1. To appreciate the active role of population geography as a distinct field of human geography. 2. To be conversant with different sources of demographic data, and well versed with debates on population-development linkages. 3. Students should be able to examine the different components of

	population change, its drivers, and their consequences upon contemporary socio-economic, environmental, and political changes. 4. The students will be able to understand population dynamics, measurement of fertility and mortality. 5. The students will be able to understand population resource regions, population planning and population policies in developed and development countries.
Elective Paper-V (c) Geography of Tourism and Recreation GEOG 210 (19)	1. To understand the concept of leisure, recreation and tourism and how geographical space can define them. 2. To understand the different types of tourism and its impact on environment. 3. To understand the importance of tourism planning in environmental protection. 4. The students will be able to understand planning of tourism, conflicting issues of development, urban and rural dimensions. 5. The students will be able to understand sustainable tourism and state contribution in tourism development.
Paper-VI Geography of Trade and Marketing GEOG 210 (20) (Not for Geography Students)	1. To understand how trade and marketing as an economic activity is also geographical and to know its pattern in space and time. 2. To know the theories and policies related to world trade and marketing. 3. To understand the role of globalization in trade and marketing and its impact on natural environment. 4. The students will be able to understand development of marketing systems, classification of markets like rural, urban, intra urban, periodic markets; market hinterlands and consumer behaviour. 5. The students will be able to understand globalization and contemporary issues of trade and marketing.

SEMESTER – III

Course Title	Course Outcomes
Paper-I Urban & Regional Planning GEOG 210 (21)	1. The students will learn about basic principles of urban and regional planning. 2. The students will know about pioneering thinkers in the field of urban planning. 3. The students will study about the different theoretical background and structure of the regional planning process. 4. The students will be able to understand regional development strategies, urban theory and regional planning strategies for

	backward areas like drought prone area, hill area, tribal area and rural area. 5. The students will be able to understand role of urban centres in regional planning and strategies for urban planning.
Paper-II Regional development in India GEOG 210 (22)	1. The course will help in understanding concept and need of sustainable regional development along with changing paradigm of regional development in India. 2. It will improve understanding about role of various development ideas shaping regional development strategies. 3. Understanding spatial and temporal pattern of area development, poverty and HDI indicators. 4. The students will be able to understand regional development Programmes in India like hill area development and tribal area development etc. 5. The students will be able to understand role of private sector and multinationals in regional development of India.
Paper-III GIS, Surveying and Computer Assisted Cartography GEOG 210 (23)	1. Overall understanding of potential of Remote Sensing, GIS and GPS. 2. Understanding of image interpretation and relating it with field observations. 3. Understanding of GIS analysis workflow and integrated applications in various domains of Geography. 4. The students will be able to understand application of GIS technology in utilities management and other fields. 5. The students will be able to understand different type of field surveying with different type of instruments.
Elective Paper-IV (a) Environmental Geography GEOG 210 (24) OR	1. To understand the composition and types of environment. 2. To understand the concept of ecosystem, energy flow and functioning of ecosystem. 3. To understand the causes and effect of environmental degradation. 4. To know the environmental legislations and laws and to understand the concept of environmental management to check environmental degradation. 5. The students will be able to understand environmental policy and planning.
Elective Paper-IV (b) Water Resource Management OR	1. To know about the sources of water on earth and its global distribution. 2. To understand the problems associated with water balance and human interference to it. 3. To know about the policies in India regarding water conservation.

	4. The students will be able to understand conflict for water resources, water pollution and water conservation. 5. The students will be able to understand water policy, rural and urban water supply.
Elective Paper-IV (c) Geographical Dimensions of Hydrology GEOG 210 (26)	1. Apply the water balance equation to various hydrological problems in time and space. 2. Describe how components of the water cycle are influenced by human activities. 3. Analyse hydrological data in order to evaluate water resource management in an area. 4. The students will be able to understand privatization of water resources and water conflict wars. 5. The students will be able to understand present and future perspectives of water conservation.
Elective Paper-V (a) Political Geography GEOG 210 (27) OR	1. Students shall learn about the meaning, scope and recent development in political geography as well as different approaches to the study of political geography. 2. Students shall learn about the geo-strategy and world geopolitics in changing perspectives. 3. The students will be able to understand different theory related to geo-strategic. 4. Students shall learn about the geopolitical significance of the Indian ocean and role of third world countries. 5. Students shall learn about the geography of elections will special reference to India and changing political map of India.
Elective Paper-V (b) Geography of Transport and Communication GEOG 210 (28) OR	1. Students shall learn about the significance of transport in multifaceted development. 2. Significance of various models. 3. Role of theories related to transport network. 4. About the Accessibility, connectivity and policy interventions. 5. They will be applying the various approaches of transport in daily life.
Elective Paper-V (c) Bio-Geography GEOG 210 (29)	1. To understand the concept of biogeography and know the important terminologies related to ecology and biosphere. 2. To understand the relationship of different components of biosphere and functioning of the ecosystem. 3. To understand man's role in modifying the natural ecosystem and its consequences. 4. To understand how we can conserve the natural ecosystems. 5. To understand the national forest policy of India and international and national efforts for conserving biological resources.
Paper-VI Applied	1. The students will be able to appreciate that geography and space

Economic Geography GEOG 210 (30) (Not for Geography Students)	matter in economy. 2. The students will be able to identify some key issues that economic geography engages with. 3. The students will be able to comprehend and analyse the principal questions confronting the contemporary space-economy: a) What are 'economic' reasons for variations in spatial distribution of population and resources? b) How to solve the 'mystery' of economic growth? c) Has the role of 'distance' and 'proximity' declined? d) Has the World become 'flat'? 4. The students will be able to understand the different theories of industrial location. 5. To understand the status of quaternary activities in different economic systems and recent trends of emerging patterns of world trade.

SEMESTER – IV

Paper Title	Course Outcome
Paper-I Techniques of Spatial Analysis GEOG 210 (31)	1. To know about different types of spatial data and the methods of data collection and compilation. 2. To perform diagrammatic and mathematical representation of spatial data. 3. To know about sampling frame and procedure. 4. Perform hypothesis testing. 5. To understand the basic principles and elements of factor analysis and principal component analysis.
Paper-II Urban Geography GEOG 210 (32)	1. To understand the linkages between urban cities and the societal forces that shapes it. 2. Critically analyse contemporary urban issues from a geographical perspective. 3. Understand urban issues in order to engage with possible and effective planning and policy interventions. 4. To understand the different ecological models of urban and concept of city region and its delimitation. 5. Understand the third World Urban problems like pollution, Slums and Squatter settlements, Urban Poor and Urban planning of B.J. L. Berry.
Paper-III Field Work	1. According to the specialization the students learn to take up a case study and generalize the phenomena studied.

Dissertation and Viva Voce: (3+1Credits) GEOG 210 (33)	2. To learn about the research methodology and relevance of the case study. 3. To apply the knowledge and techniques learnt in report writing and data analysis.
Elective: Paper-IV (a) Tropical Geomorphology GEOG 210 (34) OR	1. To know about the geomorphological processes in Tropical climate regions and their associated landforms. 2. To understand the factors controlling the processes that operates in tropical climate. 3. To understand the process of slope evolution. 4. To understand the human activities that interfere with the natural geomorphologic processes and it's its consequences. 5. The students will be able to understand the human activities in tropical areas.
Elective: Paper-IV (b) Monsoon Climatology GEOG 210 (35) OR	1. To understand the monsoon mechanics and role of jet streams, tropical air masses, Tibetan plateau, southern oscillation and upper air circulation in the arrival and departure of monsoon. 2. To know about the other weather phenomena such as tropical disturbances prevalent in the monsoonal climate areas. 3. To know the regionalisation of India based on climatic characteristics such as agro climatic regions. 4. The students will be able to understand the classification of tropical climates, regionalization of India based on the scheme of Koppen and Thonthwaite. 5. The students will be able to understand the desertification in monsoon lands, Man-made climate, urban and industrial centres and related problems.
Elective: Paper-IV (c) Resource Planning GEOG 210 (36)	1. To understand the basic framework, methods, techniques and purpose of resource planning. 2. To understand the importance of physical resource conservation and human resource development. 3. To know about the resource utilisation, development, planning and policy in India. 4. To know about the resource planning units in India. 5. The students will be able to understand the case study and development strategies of India.
Elective: Paper-V (a) GIS and Its Application OR	1.Understanding of geospatial data management and analysis functions 2. Understanding of analytical modelling with GIS 3. Understanding of thematic map designing using GIS. 4. The students will be able to understand the GIS data standards and Digital Elevation Model (DEM). 5. To understand the Integration of Remote sensing and GIS as

	well as GIS project design and planning methodologies.
Elective: Paper-V (b) Industrial Geography GEOG 210 (38) OR	1. To understand the factors influencing industrial location and development. 2. To know about the major industrial regions of the world and India. 3. To know about the problems of industrial development with special emphasis on environmental degradation. 4. To know the historical evolution of industrialization in India and impact of globalization on industrialization. 5. To understand the problems of industrial development.
Elective: Paper-V (c) Geography of Crime and Terrorism GEOG 210 (39)	1. To understand the geographical approaches to study crime and terrorism. 2. To understand the different causes of crime. 3. To know about the different types of crime at national and international levels. 4. To know about the terrorism in India and understand the controlling factors. 5. To understand the role of religion in terrorism as well as rehabitaion of criminals and terrorists.
Paper-VI Natural Hazard Management GEOG 210 (40) (Not for Geography Students)	1. To know about the distribution of different types of natural hazards and man's role in generating such hazards. 2. To know the occurrences of different types of natural hazards in India. 3. To know about the management and prediction of natural hazards. 4. To understand the natural hazards in world, Seismic zones, Tsunamis and landslides prone areas. 5. To understand the management of Natural Hazards and prediction of natural hazards.

B.A.[Economics]	
Programme Outcome (POs)	
PO1	The student will be able to know the basic concept of economics.
PO2	The student will be able to learn the economic behaviour in practice.
PO3	The student will gain the economic way of thinking.
PO4	The student will able to analyze the historical and current events from an economic perspective.
PO5	The student will be eligible for admissions to post-graduate programs for further studies and will be able to appear for various competitive exams of UG level eligibility.
Programme Specific Outcome (PSOs)	

PSO1	Will be able to understand economic theories and functioning.
PSO2	Statistical and Mathematical skill for collective and analysis of empirical data
PSO3	Will be aware of concept of development and its measurement.
PSO4	Will be aware of the development issues of Indian Economy.
Course Outcomes	SEM I
Microeconomics - I	CO01: Introduction Economic theory, Micro and Macro economics CO02: Concept of Demand-Supply, Price mechanism CO03: Consumer behaviour CO04: Concepts of Elasticity and Consumer Surplus CO05: Production Function; Laws of Returns
Indian Economy (Nature and Problems)-I	CO01: Economic History of India CO02: 5 Yrs Plans and Economic Resources. CO03: Broad Demographic Feature of India CO04: Agri-Sector of Indian economy CO05: Agri-Marketing, and Community development programmes.
	SEM II
Microeconomics -II	CO01: Nature of Markets; Revenue & Cost Analysis CO02:Monopoly; Monopolistic Competition; Price Discrimination CO03:Theory of Distribution; Rent ; and Productivity CO04:Theory of Wage CO05: Interest; Keynesian Liquidity; Profit – Schumpeter-Knight, Mehta
Indian Economy (Nature and Problems)-II	CO01: Industrial development in India CO02:Industrial policies in India CO03: India's External trade – composition and directions CO04: Balance of payment, FOREX Crisis, IMF CO05: Economic Reforms, Export promotion, role of MNCs
	SEM III
MacroEconomics	CO01:National Income accounting CO02:Govt expenditure; National income analysis ; Keynesian theory of Employment CO03:Consumption Function; Criticism of Keynesian Consumption CO04: Investment Function; Its effectiveness in LDCs; and Marginal Efficiency of Capital CO05: Trade Cycles; Contributions of Hawltey, Hayek, Keynes on this issue
Money & Banking	CO01: Money, Meaning, functions and classification; Money Supply CO02: The quantity theory of money; Keynes's fundamental equations. CO03: Inflation, Deflation and Reflection, Stagflation CO04: Commercial Banking; Credit Creation Multiplier CO05: Functioning of RBI; Credit Control; Monetary Policy
	SEM IV
International Trade	CO01: Macro Theories of Distribution- Ricardo, Marx and Kaldor CO02: Theories of Growth: Harrod and Domar Growth Models CO03: Interregional and International Trade importance of International Trade. CO04: Theories of International Trade

	CO05: Tariffs and quota, Balance of Trade and Balance of payment
Public Finance	CO01: Meaning and Scope of Public Finance; Public and Private Goods CO02: Principle of maximum social advantage CO03: Public Expenditure- Meaning, Classification and principles CO04: Public Dept- Meaning, Methods of Debt Repayment CO05: Taxations- Meaning, Types , and effects of Taxation
	SEM V
Economic Analysis -I	CO01: Theories of Firm ; Baumols' Sales Maximization model; Williamson's model of managerial discretion CO02: Welfare Economics CO03: Pareto Optimality, Kaldor – Hicks compensations principle CO04: Oligopoly, Duopoly, - Collusion and Non-collusive oligopoly CO05: Oligopoly Model, The Kinked Demand Curve, and Cartels
Development, Planning & Policies-I	CO01: Development: Meaning, Measurement and Indicators of Development CO02: Over Population, Technology Backwardness CO03: Rostow's Stages of growth, Big Push Theory CO04: Measures of Development: Augmentation of Saving, Investment Strategy CO05: Surplus Labour as a source of Capital formation
Techniques of Economic Analysis –I	CO01: Nature of Economic Problem, Approaches to Economic Analysis, Micro & Macro Analysis CO02: Functional Relationship in Economics. Demand, Supply, Cost Revenue CO03: Rate of change and the slope of a straight line CO04: Concepts and Nature of Various Rates of Growth; Concept of Marginal Propensity to save and consume. CO05: Elementary idea and Interpretation of First Order Differential Coefficients; Elasticity of Demand and Elasticity of supply.
	SEM VI
Economic Analysis -II	CO01: Criticism of Keynesian System, Pigeon Effect and Wealth Effect CO02: Permanent and Relative Income Hypothesis CO03: Theory of Investment – Autonomous and induced investment, CO04: Concept of Accelerator, Multiplier–Accelerator; Hicks and Samuelx Theory CO05: The Harrod Problem; Solow's model of Economic Growth; Input / Output Analysis
Development, Planning & Policies-II	CO01: Planning in India ; Transition from Central Planning to Indicative Planning CO02: Changing Role of State and Market in economic policy of India CO03: Industrial Development and Industrial Policy During Plans CO04: Employment Generation and Poverty Alleviation CO05: Export-Import Policy, Fiscal and Monetary Policies
Techniques of Economic Analysis –II	CO01: Understanding the Statistical Process, Investigation, Collection of data CO02: Measures of Central tendency CO03: Measures of Dispersion; Standard Deviation; Lorentz Curve CO04: Measures of Skewness, Correlation and its measures karl Pearson's co-efficient CO05: Index Numbers; Role and functions of C.S.O. , N.S.S.O

M.A.[Economics]	
Programme Outcome (POs)	
PO1	Students will acquire the knowledge of economic theories, develop theories, Public Finance, International Trade, Indian Economy etc.
PO2	The students are empowered for appearing various competitive examination or research programme.
PO3	Students get knowledge of various research methods.
Programme Specific Outcome (PSOs)	
PSO1	Students will be able to know how to apply the knowledge from Economics in various sectors of Society.
PSO2	Students will be able to design policies to overcome the economical crisis.
PSO3	Students will be able to utilize their knowledge to solve issues in unemployment, poverty, agriculture production and productivity.
PSO4	Students will be able to know about various economic theories and some organizations as WTO, IMF, WB etc.

Course Outcome

Semester-I

Paper-I Economic Thought	Upon successful completion of the Course, the student would be able to: CO1: Understand the history of Indian Economic Thinker. CO2: Know about J. L. Nehru, Vinoba Bhave & Amartya Sen. CO3: Study about the History of Western Economic Thinkers - The Classical Tradition. CO4: Know about the Modern Economic Thought. CO5: know about the Neo Classical Economic Thinker.
Paper-II Micro Economic Analysis	Upon successful completion of the Course, the student would be able to: CO1: Understand the various concepts of Micro economic theory. CO2: Application of Economic theory in the context of India. CO3: demonstrate competance in using diagrams and groups to explain economic principles and their applications. CO4: analyse the economic behaviour of individuals and various aspects of consumer behaviour. CO5: Cost Analysis - Traditional & Modern Theories of Cost; Deviation of Cost from Production function Revenue Analysis, General Equilibrium Theory - Its Stability and Uniqueness.
Paper-III Theories of International Trade	The student will be able to: CO1: Understand the concepts, issues and challenges of International Trade. CO2: know the importance of External Sector in India's economic growth and development. CO3: Apply the International Economic Theory in context of India. CO4: Understand and analyze different policy initiatives taken by Government and other Institutions. CO5: Understand the Nominal Effective & Optimum Rates of Tariffs - Their Measurements, Impacts and Welfare Implication Dumping.
Paper-IV (a) Issues & Problems	CO1: Student will be able to understand various features of Indian Economy.

of Indian Economy	CO2: will be able to develop comprehension on issues and challenges prevailed in Indian Economy. CO3: evaluate critically the problems & Development issues of India. CO4: understand importance of different sectors and their contribution to Indian Economy. CO5: Know about Human Resource Development & Social Infrastructure. Role of N.G.O. in Development.
Paper-IV (b) Indian Economic Policy	CO1: will know about various sectors of economic policies such as , Monetary Policy. Population Policy etc. CO2: will be able to understand different institutions such as NITI Ayog, NDC etc. CO3: Student will be able to understand Balance of Payments. CO4: Understand about Foreign Trade Policy, Foreign Capital in India, FERA, FEMA etc. CO5: Study about Some Issues of Indian Economy.
Paper-V Computer Application in Economics	The student will be: CO1: familiar with basic knowledge of Computers. CO2: familiar with a statistical software.. CO3: will be able to draw distributive tables, graphs, trend lines. CO4: able to interpret and estimate the parameters of multiple regressions with the help of software. CO5: able to use unit level data of large samples, VIZ., NSSO various rounds.
Paper-VI Environmental Economics	The student will be: CO1: familiar with the debates on approaches on linkage between Natural Environment and Human Economy. CO2: understand the linkages between environmental degradation and economic development. CO3: familiar with contemporary environmental problems. CO4: familiar with various methods of measurement of environmental resources. CO5: Know about Environmental Policy in India.

Semester-II

Paper-I	After successful completion of this course, student will be able to: CO1: Explain the bahaviour of buyer and sellers in the market using basic economic theories. CO2: apply the Market theory in contect of India. CO3: analyze the economic behaviour of individuals, firms and market. CO4: know about managerial theory of firms. CO5: know about welfare economic theories, social welfare function.
Paper-II Quantitative Methods	The student will be able to: CO1: develop mathematical approach in analysis of economic problems. CO2: understand mathematical technique, which are directly useful in economic analysis. CO3: use mathematical and statistical tools for economic theory. CO4: draw economic interpretation from the application of quantitative tools to economic theories. CO5: Method of Estimation, Assumption and the concept.
Paper-III International Economics	The student will be able to: CO1: Understand meaning and components of balance of payments. CO2: Understand the concepts of exchange rate.

	CO3: Effects of customer Union. CO4: Form of Economic Cooperation; Static & Dynamic Effects of costoms union. CO5: Rationale and Economic progress of SAARC/SAPTA and ASEAN Regions.
Paper-IV (a) Financial Institutions	After successful completion of this Course, the student would be able to: CO1: Understand the concept of Money, near money & financial intermediaries. CO2: Understand the structures of the financial system. CO3: know about function of Central Bank. CO4: Analyze role and function of development Bank and Investment banking. CO5: Know about International Liquidity.
Paper-IV (b) Labour Economics	CO1: Student will be able to understand different theories on labour & employment. CO2: student will be able to analyze the latest development of labour market in developing contries with reference to India. CO3: Student are able to understand National Wages Policy, Wage and Wage Boards in India. CO4: understand the Industrial Relations, Industrial disputes, special problem of labour. CO5: Special problem of Labour, Child Labour, Female Labour, Labour Market, Reforms in India-National Commission on Labour.
Paper-V Human Resource Development	The student will be : CO1: able to build an understanding and perspective of Human Resource Development as disciplne appreciating learning. CO2: understand role of education & health in human resource development. CO3: understand different indices of Human Development such as HDI, HPI and POLI. CO4: able to analyze problem of child labour, women labour, migration of talent. CO5: Problem of child labour, Women Labour, Migration of talent, Policy for HRD.
Paper-VI Industrial Economics	After completion of the Course student will be able to: CO1: understand about scope & significance of large & small industries. CO2: know about Industrial finance in India. CO3: Understand importance of public sector industries. CO4: understand theories of location. CO5: Analyze the size of firm & productivity.

Semester-III

Paper-I Macro Economic Analysis	CO1: Students comprehend different forms of national income accounting CO2: Students able to analyse income consumption relationship and investment function. CO3: Student understand various views and theories on interest and money CO4: Students critically evaluate different approaches of Business Cycle theories. CO5: Know about Business Cycle Theories.
Paper-II Theory of	CO1: Understanding the basic facts of economic growth. CO2: Comprehensive of relationship between growth and development.

Economic Growth	CO3: Familiarity with the wide-ranging policy issues and theories in growth economics. CO4: Understanding the keynesian Analysis of economic growth with a comparision to some other growth models. CO5: A critical account of the extension of the neoclassical growth model & applications.
Paper-III Public Economics	CO1: Student will know about Public goods, private goods and merit goods. CO2: Student will be able to understand about Wagner's Law of increasing State activities. Wiseman-peacock Hypothesis. CO3: Student can analyses of budget trend in public expenditure & public debt. CO4: Student will have knowledge about Indian Tax System. CO5: Student will have knowledge about sources of public debt.
Paper-IV (a) Economics of Agriculture	CO1: Student will be able to know about the linkage between Agriculture and Industry. CO2: Understand traditional Agriculture and modernization. CO3: Understand Agriculture Development model; Lewis, Schultz and Miller CO4: Able to analyse relationship between farms, size and productivity. CO5: Will have knowledge about the Green Revolution
Paper-IV (b) Demography	CO1: Student will be able to discuss and analyze the concept of demographic theories & its applications. CO2: student will acquire knowledge about Child Women ratio, Sex ratio, Population Density etc.. CO3: Student will be able to measure Infant Mortality rate, Mortality Rate and MMR CO4: Aware of the Concept of Life-tables. CO5: Know about Population Manpower Projection.
Paper-V Managerial Economics	CO1: apply the knowledge of the mechanics of Supply & demand to explain working of market. CO2: able to describe how change in Demand & Supply affects markets. CO3: will understand the choices made by a rational consumer. CO4: able to Explain relationships between productions and costs. CO5: will understand Investment Decision and Capital Budgeting Cost benefit Analysis.
Paper-VI Problems of Indian Agriculture	CO1: able to understand the structure of the agriculture sector of the Indian economy. CO2: able to understand rate & impact of the Institutional support to agriculture sector. CO3: will understand the marketing of agricultural products. CO4: the student will be able to analyse the problem of agricultural labour, Agrarian unrest employment, situation and wages. CO5: will have knowledge about food policy, agriculture pricing policy, green revolution.

Semester-IV

Paper-I Monetary Economics	CO1: will have knowledge about Money and Money Supply. CO2: will be aware of various monetary theories. CO3: will have knowledge about RBI approach to Money supply. CO4: will have knowledge of controlling Money supply. CO5: will have knowledge of Friedman and Modern Quality theory.
Paper-II	CO1: Will be able to understand Monetary and Physical Policies.

Indian Public Finance	CO2: Will have knowledge about Theory of Federal Finance, Fiscal Federalism in India. CO3: Will be able to analyse finance commission, Planning Commission & NITI Aayog, Central State Financial Relation in India. CO4: about Budget trends & Tax System. CO5: Analysis of Central & State Government Budget Trends in Public Expenditure.
Paper-III Research Methodology	CO1: Student will be able to explain, difference between social and physical sciences research. CO2: will be able to understand Research design, data collection, presentation of research report. CO3: will be able to analyse and classify the data. CO4: will know about measure of Central tendency, Mean, Median, Mode and Measure of dispersion. CO5: will understand measures of skewness, coefficient of variation.
Paper-IV (a) Economics of Infrastructure and Transport	The student will be able to understand: CO1: Infrastructure Economics and development, Characteristics of Public utilities. CO2: Role of state in Infrastructure provisions, Public-Private Parternership, Planning in India-Process, Implementation and experience. CO3: About characteristics of Demand and supply in Transport Sector, Model of Transport, Road, Water and Air Transport. CO4: About energy, electricity, gas and water supply economics. CO5: To analyse-Infrastructure Financing and Regulations.
Paper-IV (b) Economics of Public Sector in India	Students will be able to : CO1: Understand the role of public sector in the economic development, Managemnt of Public sector enterprises. CO2: understand criteria of project selection, Investment planning, project evaluation. CO3: Analyze the investment in infrastructure. CO4: Analyze pricing policy of public enterprises & profir maximization. CO5: evaluate critically the board problems of the major enterprises of India as Indian Railways, Steel Industry, Coal Industry, BHEL.
Paper-V Rural Development	Student will be able to understand: CO1: aspects of rural development, rural infrastructure, HDI in Rural India. CO2: about development of Rural Entrepreneurship, Problems of inequality in Rural India. CO3: Analisis the causes of rural migration and solutions, Problems of inequality in Rural India. CO4: Review of Rural Development Administration and Panchayati Raj Institutions and Role of Voluntary Agencies in Rural Development CO5: Rural Development Programmes, MANREGA, National Rural Livelihood Mission, National Rural Health Mission etc.
Paper-VI Regional Economic Co-operation	Student will be able to understand: CO1: Bilateral Trade Agreement, Gravity Equation Revealed Comparative Advantage Model. CO2: About Free Trade Agreements, Scope and Importance of SAPTA, NAPTA and ASEAN. CO3: Economic Integration and regional grouping, Theories of Customs Union. CO4: Analysis of the Viner Model, Vanek Model and the Lipsey Model CO5: Indian and European Union.

B.Lib.I.Sc.	
Programme Outcome (POs)	
PO1	The student will be in a position to work at lower and middle managerial positions in all types of libraries, viz. academic, public or special.
PO2	They will have competencies to perform day to day housekeeping operations and provide library services such as circulation, reference and information services to users of a library.
PO3	Additionally, they will be in a position to design and develop information retrieval systems specific to the needs of a small community of users.
PO4	Another outcome of the programme is to develop a strong foundation and inspiration for higher-level courses in library and information science.
Programme Specific Outcome (PSOs)	
PSO1	The student will be able to appreciate the basic philosophy and ethics of librarianship.
PSO2	The student will be able to understand the role and evolution of library as a social institution.
PSO3	The student will know about various types of libraries, their nature, objectives and services.
Course Outcomes	
	SEM I The students will gain an understanding of:
Library and Society Paper-I	CO01: Library as societal institution CO02: The Five core laws of Lib Science CO03: Library legislations and their features CO04: Resource Sharing in Libraries CO05: Librarianship as a profession
Library Management Paper-II	CO01: Library Organisational Structure CO02: Types of Information Resources, Selection Principles and Communication Media. CO03: Management and use of library resources. CO04: Participative management, TQM in libraries. CO05: Library finances
Library Classification theory Paper-III	CO01: Theory and development of library classification CO02: Species of classification CO03: Approaches to library classification- categories, and sequence CO04:current trends in classification CO05:Comparision of different editions of Decimal classifications , UDC
Library Classification Practical Paper-IV	CO01: Dewey Decimal classification CO02: Decimal Classification CO03: Colon Classification CO04: Application of Postulates and principles for facet Analysis and synthesis CO05: Should be able to exercises for practical application generating classification number with and without auxiliary tables
	SEM II The students will gain an understanding of:
Library	CO01: Cataloguing Code and Types

Cataloguing Theory Paper-I	CO02:Forms of catalogue entries CO03: Centralized cataloguing and MARC, and CCF. CO04: Subject cataloguing – problems, vocabulary control. CO05: Recent Trends in Library cataloguing
Library Cataloguing Practical Paper-II	CO01: structure of AACR-2; single author works, edited works. CO02: Handling Pseudonym authors, corporate publications, and Multi Volume books. CO03: Cataloguing of non-print media CO04: Introduction to classified catalogue code CO05: handling periodicals
Reference and Information Sources Paper-III	CO01: Study of Reference Sources Information Access tools kinds of Bibiliographics. CO02: Categories of Reference Sources, Dictionaries, Encyclopedias, Year Books, patents. CO03: Categories of Reference sources (Part-2) Geographical Sources CO04: Statistical Information Sources CO05: Mass media and institutional information sources
Information Services and Organization Paper-IV	CO01: Information services and its users CO02: Organisation of Information Services CO03: Reference services and its importance CO04: Document delivery services CO05: management of search/database services
Information Technology: Basics and Practical Knowledge Paper-V	CO01:Role of I.T. in libraries CO02: Functions and need of Library software packages CO03: Features of Indian Software packages CO04: Library Management software packages: LIBSYS, SOUL. And INFLIBNET CO05: Library and Internet based sharing setups

M.Lib.I.Sc.

Programme Outcome (POs)

PO1	1. Will be trained in Technological knowledge and professional skills.
PO2	2. Will be able to effectively administer and manage Libraries and Information Centers.
PO3	3. Will learn the skills of organizing information and recorded knowledge.
PO4	4. Will become competent for job opportunities in LIS and related field.
Programme Specific Outcome (PSOs)	
PSO1	The students will be acquainted with organization and development of Universe of knowledge and Information.
PSO2	The students will be acquainted with Research Organization and Research Methodology.
PSO3	The student will be able to understand the basic principles and fundamental laws of library science.
PSO4	The student will be able to understand and appreciate the function and purpose of library in changing social and academic environment.
Course Outcomes	SEM I The students will gain an understanding of:

Universe of Knowledge and Research Methodology	CO01: Structure, Division and Attributes of Universe of Subject CO02: Mapping of Universe of Subjects in Different classification Schemes CO03: Meaning of Research, Research Problem, & Research methodology CO04: Data Collection techniques and Analysis CO05: Report writing and Bibliometrics
Information, Communication and Society	CO01: Data, Information and Knowledge : Concept and Difference CO02: Communication of information and barriers to information communication CO03: Economics of information CO04: Information Policies : National Programme and Policies, National Information Policy (NIP) CO05: Organization and institutions involved in the development of Library and Information Services
Information, Storage and Retrieval	CO01: Information Storage and Retrieval CO02: Classification Schemes : Special Reference to UDC CO03: Thesaurus : Structure , Types, Function and Application) CO04: Indexing Process : Traditional and Automatic CO05: Indexing Language and Controlled Vocabulary
Academic Library System	CO01: Origin and Development of Academic Libraries CO02: Role of University Grant Commission (UGC) in the Development of College and University Libraries CO03: Collection Development in Academic Libraries and Financial Management of Academic Libraries CO04: Personnel Management in Academic Libraries CO05: INFLIBNET Services
	SEM II The students will gain an understanding of:
Information, Source, System and Programmes Paper- I	CO01: Information Sources: Primary, Secondary and Tertiary CO02: Customization of Information Sources and Content Analysis CO03: Information sources CO04: Information Sources System and Programmes in Humanities, Social sciences CO05: Information Sources, Systems and Programmes Science and Technology
Information and Communication Technology: Application Paper- II	CO01: Information and Communication Technology: Concept and Application CO02: Application of Computer in Library Functions Services CO03: Library Management Software Packages: LIBSYS and SOUL CO04: Functioning of ERNET, NICNET, JANET, BLAISE, OCLC, INFLIBNET CO05: Searching on the Internet and Teleconferencing Telex, Video Text.
Public library system Paper- III	CO01: Recognize the importance, principles and role of public libraries in society; CO02: Understanding the historical development of higher education in India; CO03: Identify public library finance and delineate the public library movements; CO04: Identify different sections of academic library and illustrates their functions; CO05: Define the principles of collection development in academic libraries;

(Preservation and Conservation of print and non-print Material) Paper- IV	CO01: Summarize the need for preserving and conserving library materials. CO02: Distinguish the various types of hazards occur to library materials. CO03: Apply control measures for safeguarding library materials. CO04: Critically differentiate the types of binding used for library materials. CO05: Discover the process of restoring library materials to original form.
Knowledge Organization (Depth classification Practice) and Information Storage Retrieval (Advanced Cataloguing Practice) Paper- V	CO01: Classification of Documents representing compound and complex subjects using colon classification CO02: Composite Books CO03: Multi volume Books CO04: Non Books Materials CO05: Periodicals/Journals

BA [JMC]	
Programme Educational Objectives (PEOs)	
PEO1	To familiarize the students with the working atmosphere of media – both print & electronic.
PEO2	To develop working skills needed for newspapers, magazines, radio, television, web journalism.
PEO3	To develop aptitude & competence to analyze & interpret the events.
PEO4	To develop writing skills for different formats used in media.
PEO5	To provide knowledge of Indian constitution, current affairs & global scenario.
Programme Outcome (POs)	
PO1	Students able to understand the basic conceps of communication and its role in society.
PO2	Have vision to observe the forms and characteristics of electronic media.
PO3	Have able to understand language used in various media.
PO4	Have able to develop a concept of reporting writing & editing for print media.
PO5	Students able to develop their own view about changing trends in media.
PO6	Have able to develop unbiased, objective, balance journalistic attitude towards in current scenario of nation and international events.
PO7	Have able to develop an innovative and creative thinking towards any circumstances.
PO8	Have able to accept the challenges of journalistic atmosphere.
Programme Specific Outcome (PSOs)	
PSO1	Specific approach to develop an aesthetic sense of students towards

	any storyline, editing & photography.
PSO2	Conduct yoga/meditation classes for stress management of students who is going to start his/her career in hectic schedule of media world.
PSO3	Develop the journalistic point of view of every student towards any national, international, political, economical, health, culture, sports, entertainment and other events.
PSO4	Organized the debate to develop the thinking and analytical aptitude of every students.
PSO5	Effective approach to build up human being with smart personality.
PSO6	Specific approach to develop an aesthetic sense of students towards any storyline, editing & photography.

NEHRU GRAM BHARATI
(DEEMED TO BE UNIVERSITY), PRAYAGRAJ
COURSE OUTCOME
After completion of the course the student will be able to :

BA-JMC SEMESTER-1st	
Paper 1st Introduction to Communication	CO1: The students will be able to understand concepts of communication. CO2: Students are able to implement the form of communications in not only their professions but everyday life. CO3: Students understands about Communication; is integral to human expression and growth and has taken many forms over centuries. CO4: The students will be able to identify the use of media in providing meaningful information. CO5: After the completion of the course the students will be able to explain and review on critical evaluation of mass communication Theories.
Paper 2nd History of Journalism	CO1: The students will be able to understand the different phases of print Journalism. CO2: The students will be able to understand the different phases of broadcast journalism in India. CO3: Student will able to understand the nature of Indian media during freedom movement. CO4: Students are able to acquire knowledge about freedom fighters and their journalistic approach. CO5: Students will able to acquire knowledge of Indian media and its various aspects
Paper 3rd Print Media	CO1: Students will be able to identify news values and comprehend the news process. CO2: Organize a news story according to the hard news structure. CO3: Acquire Knowledge of News Sources. CO4: Acquire Knowledge of Page Designing. CO5: Write different leads, the body text and ending for print media.
Paper 4th Practical & Viva-Voce	CO1: Develop basic writing skills. CO2: Acquire practical knowledge of editing stories & writing headlines. CO3: Students are capable to face the experts and ask the questions and advise. CO4: They gained able to evaluate their knowledge by through viva-voce.

	CO5: Students are capable to Present their Projects File and PPT.
BA-JMC SEMESTER-2nd	
Paper 1st Reporting & Editing	C01: Will acquire Knowledge of various types of News Reporting. CO2: Acquire introductory Knowledge about news formals like: interviews Hard news soft news follow up etc. CO3: Acquire Knowledge of various areas of news. CO4: Acquire Knowledge of news composing. CO5: Acquire Knowledge of editing.
Paper 2nd Development Communication	CO1: Students will be able to recognize and explain the concept and importance of development. CO2: Students will be able to distinguish between communication and development communication. CO3: Acquire introductory knowledge about the role of Farming Sector in Development. CO4: Acquire introductory knowledge about the role of villages and its importance in development. CO5: Students will be able to describe use of different media in development communication.
Paper 3rd History of Broadcasting in India	CO1: Acquire knowledge about History of Radio, Print & Television. CO2: Will acquire knowledge of Role & Responsibility of Broadcasting. CO3: Students are able to understand the emerging of print journalism in India. CO4: Will acquire knowledge about role of media in freedom movement and democracy. CO5: The students will be able to understand new concept of Autonomy & Prasar Bharati.
Paper 4th Practical & Viva-Voce	CO1: Develop basic writing skills. CO2: Acquire practical knowledge of editing stories & writing headlines. CO3: Students are capable to face the experts and ask the questions and advise. CO4: They gained able to evaluate their knowledge by through viva-voce. CO5: Students are capable to Present their Projects File and PPT.
BA-JMC SEMESTER-3rd	
Paper 1st Electronic Media & Visual Communication	CO1: Visual communication applies the fundamentals of major art forms for professional problem-solving. CO2: It is the conveyance of ideas and information in forms that can be read or looked upon. CO3: This unit will introduce students to the history, forms and elements of visual communications. CO4: Students are able to understand the theories, meaning, and principles of visual communication. CO5: The students Able to understand various visuals and its presentations in news media.
Paper 2nd Communication Technology:Computer & Internet	CO1: Understand the concept of computer & internet. CO2: Able to handle the software related to Video & Photo Editing. CO3: Able to understand the technological support in media. CO4: Able to understand the convergence media communications. CO5: Define the principle of Newspaper page design.
Paper 3rd Media Language	CO1: Able to understand of Media language & its structure. CO2: Acquire basic knowledge about variations of language.

Structure & Stlye	CO3: Students able to use idioms and phrases these are generally used in both the language for journalists. CO4: Students able to understand the importance of Dialect Cultural Communication. CO5: Acquire knowledge utility of language
Paper 4th Practical & Viva-Voce	CO1: Develop basic writing skills. CO2: Acquire practical knowledge of editing stories & writing headlines. CO3: Students are capable to face the experts and ask the questions and advise. CO4: They gained able to evaluate their knowledge by through viva-voce. CO5: Students are capable to Present their Projects File and PPT.

BA-JMC SEMESTER-4th	
Paper 1st Public Relations	CO1: To enable the students to integrate various functions with organizational goals and strategies. CO2: To provide hands-on training on planning and production of brand and social campaigns. CO3: Students are able to understand the importance of Branding. CO4: Students are able to understands the various types of publics. CO5: To provide skills on various events especially in media planning and production of campaigns.
Paper 2nd Advertisements	CO1: The student will be able to identify and define the advertising concepts. CO2: Students are able to review the advertising media. CO3: The student will be able to analyse the Indian advertising scenario. and will distinguish between advertising and marketing. CO4: The student will be able to distinguish between advertising and marketing. CO5: The student will be able to categorize different types of advertisements. The students will also be able to appraise and interpret the legal, ethical and social aspect of advertising.
Paper 3rd Media & Social Issues	CO1: Develop basic understanding about Indian society & its Historical feature. CO2: Acquire knowledge about Globalization & its impact on Indian media. CO3: Students are able to understand environmental, sociological and political issues. CO4: Students are able to understand Social awareness and its importance. CO5: Will able to understand Human Rights.
Paper 4th Practical & Viva-Voce	CO1: Develop basic writing skills. CO2: Acquire practical knowledge of editing stories & writing headlines. CO3: Students are capable to face the experts and ask the questions and advise. CO4: They gained able to evaluate their knowledge by through vivavoce. CO5: Students are capable to Present their Projects File and PPT.
BA-JMC SEMESTER-5th	
Paper 1st Indian Constitution, Government &	CO1: Develop basic understanding about India constitution. CO2: Develop basic understanding about Preamble of Indian constitution.

Politics	CO3: Acquire knowledge about fundamental rights & duties. CO4: Will able to understand Judicial Review system of India. CO5: Will able to understand federal system of India
Paper 2nd Press Laws of India	CO1: Will able to understand Press & Government in British India. CO2: Acquire knowledge about copy right act. Press Book registry act & Press council of India. CO3: Acquire knowledge about Press Book registry act. CO4: Acquire knowledge about Press council of India. CO5: Will able to understand Defamation, contempt of court & right to information act.
Paper 3rd International Relations & Current Affairs	CO1: Acquire basic knowledge about UNO. CO2: Will able to understand foreign Policy of India. its Neighbor Countries. CO3: Will able to understand foreign Policy of India's neighbor Countries. CO4: Will able to understand various International forum. CO5: Will able to understand India's socio-economic scenario.
Paper 4th Practical & Viva-Voce	CO1: Develop basic writing skills. CO2: Acquire practical knowledge of editing stories & writing headlines. CO3: Acquire knowledge to Will able to preparing reports on various events. CO4: Students are capable to face the experts and ask the questions and advise. CO5: They gained able to evaluate their knowledge by through vivavoce
BA-JMC SEMESTER-6th	
Paper 1st Communication Research	CO1: Describe the media research analysis for source, message, channel and audience. CO2: Classify the applications of media research in print, electronic and PR industry. CO3: Understanding theoretical, conceptual & operational framework of research. CO4: Will acquire knowledge of designing research methodology & literature review tools of data collection and data interpretation. CO5: Prepare media research plans for the above-mentioned industries.
Paper 2nd Social Media	CO1: Acquire knowledge about social networking sites. CO2: Will able to understand participatory communication. CO3: Acquire knowledge about Participatory Communications. CO4: Acquire knowledge about social media start-up. CO5: Acquire knowledge about social media policy & technology.
Paper 3rd Project Work & Field Work (Apprenticeship)	CO1: Develop basic writing skill. CO2: Student will be able to prepare reports & news. CO3: Students are able to acquire knowledge about field in depth. CO4: Practical knowledge of media industry. CO5: Acquire practical knowledge of media Industry.
Paper 4th Practical & Viva-Voce	CO1: Develop basic writing skills. CO2: Acquire practical knowledge of editing stories & writing headlines. CO3: Opens up the students understanding of the subjects CO4: Students are capable to face the experts and ask the questions and advise. CO5: They gained able to evaluate their knowledge by through vivavoce.

MA [JMC]	
Programme Educational Objectives (PEOs)	
PEO1	Necessary skills to work in various media including print, electronic & web.
PEO2	Concept and processes of communication including theories and models of communication.
PEO3	Understanding of laws related to media and media ethics .
PEO4	To introduce the students to basics of journalism and its role in society.
PEO5	Conducting communication research.
Programme Outcome (POs)	
PO1	Have fair understanding about various media and communication.
PO2	Have able to develop unbiased, objective, balance journalistic attitude towards in current scenario of nation and international events.
PO3	Have able to develop an innovative and creative thinking towards any circumstances.
PO4	Smooth communication and understanding about the synergic relationship between media and society.
PO5	Have the ability to conduct media and communication research.
PO6	Students able to develop a critical understanding about media as a discipline and also media as an instrument of change.
PO7	Prepare themselves for a career in teaching and research.
PO8	Pursue a career in print journalism, photo journalism, television production and writing, web journalism, radio production, social media, public relations, advertising, event management and film making.
Programme Specific Outcome (PSOs)	
PSO1	Specific approach to develop an aesthetic sense.
PSO2	Conduct yoga/meditation for stress management.
PSO3	Develop the journalistic point of view.
PSO4	Organized the debate to develop the thinking process and creativity.
PSO5	Effective approach to build up human being with smart personality.

Course Outcome

Semester-I

Paper- I: Principal of mass communication	CO1: Students capable to understand the basic concepts of communication & its role in society. CO2: They were capable to implement processes & theories of communication. CO3: Students able to clarify the role of media in several countries. CO4: The students can understand various type of journalism & their importance. CO5: They were capable to understand the basics of various Communication Mediums.
Paper- II: World media: india & abroad	CO1: Students understand about print media & its specifications. CO2: They make differences between T.V., Radio, Print & other mediums. CO3: Students understand the nature & process of world media. CO4: Capable to assumes the future of media world.

	CO5: Capable to understand current situation of World Media.
Paper- III: Language Excellency & media	CO1: Students capable to understand the basics of Hindi & English grammar. CO2: They can understand the composition of words so that they are able to translate text. CO3: Students are able to write words and paragraphs in correct and effective manner. CO4: Students able to use idioms and phrases these are generally used in both the language for journalists. CO5: Students able to understand the importance of Dialect Cultural Communication.
Paper- IV (a): Computer application in media	CO1: Computer & internet is a substantive part of media in these paper students able to operate the basic of computer and internet. CO2: They able to operate applications of computer in various fields related to media. CO3: Able to do power point presentation, multimedia, adobe premiere, sound & video editing. CO4: Student understands the process and basics of editing software and their uses in media and social media. CO5: Able to property operate and understand uses of Computer.
Paper- IV (b) Media & internet	CO1: Students able to operate properly internet and social media. CO2: The understand the internet protocols and security issues on internet. CO3: They updated by latest development in the field of internet. CO4: Students are able to understand the Internet Media World. CO5: They updated by latest development in the field Web Media.
Paper -V : Practical & viva voce	CO1: Students are able to secure practical model. CO2: Students are capable to face the experts and ask the questions and advise. CO3: They are able to import in group and class communication. CO4: They gained able to evaluate their knowledge by through viva-voce. CO5: Students are capable to Present their Projects File and PPT.
Paper-VI : Communication Skill	CO1: Students are able to understand the communication nature and its process. CO2: Able to understand better communication skill. CO3: Students able to understand effective writing. CO4: Students able to understand PR. CO5: Students able to understand effective Script writing.

Semester-2nd MA-JMC

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

Paper 1st Advance reporting & editing (Print Media)	CO1: Will acquire Knowledge of various types of News Reporting. CO2: Acquire introductory Knowledge about news formals like : interviews Hard news soft news follow up etc. CO3: Acquire Knowledge of editing & various areas of news. CO4: Acquire Knowledge of News Sources. CO5: Acquire Knowledge of Page Designing.
Paper 2nd Web journalism	CO1: Will be able to acquire introductory knowledge of online media. CO2: Will be able to learn forms of online packages & understand the rule of online writing. CO3: Will acquire knowledge of model of online advertisement, ethical considerations & cyber law. CO4: Will acquire knowledge of model of online Packages of News. CO5: Will acquire knowledge of Online Advertisements and its various forms

Paper 3rd Media Laws	CO1: Acquire introductory knowledge about Indian constitution & fundamental rights. CO2: Understanding different press laws & acts. CO3: Acquire knowledge of ethics of journalism, freedom & responsibility of press, press council of India. CO4: Acquire knowledge of ethics of journalists and Defamation. CO5: Acquire knowledge of ethics of News its Sources and Press Laws.
Paper 4th Media ethics	CO1: Will develop understanding of media ethics for various mediums. CO2: Acquire knowledge of code of conduct for electronic media. CO3: Acquire introductory knowledge of digital democracy. CO4: Acquire introductory knowledge of digital democracy. CO5: Acquire introductory knowledge of digital democracy
Paper 5th Practicals (Portfolio)	CO1: Develop basic writing skills. CO2: Acquire practical knowledge of editing stories & writing headlines. CO3: Will able to preparing reports on various events. CO4: Will able to preparing reports on various Issues. CO5: Will able to preparing reports on various Political Ideology.
Paper 6th Media Literacy	CO1: Acquire introductory knowledge of social media & its impact. CO2: Develop an understanding of the visual message & the truth behind visual literacy. CO3: Develop an understanding of ideology in the context of our media system. CO4: Develop an understanding of Fake News, Propagandas. CO5: Students are able to understand the News, Views and Agenda.

Semester-3rd MA-JMC

Paper 1st Electronic Media (Radio & Television)	CO1: Acquire introductory knowledge about radio & television as a mass communication. CO2: Will acquire knowledge of news bulletin & art of news presentation. CO3: Develop understanding of Television programme presentation/ production & basic equipment, cameras, different parts of lighting. CO4: Develop understanding of functioning of Key lights. CO5: Develop understanding of Radio Presentation Art.
Paper 2nd Development Communication	CO1: Understanding different approaches to development, its problems & issues. CO2: Knowledge about characteristics of developing societies and finding societies. CO3: Acquire introductory knowledge about the role of development and rural extension agencies in development. CO4: Acquire introductory knowledge about the role of Farming Sector in Development. CO5: Acquire introductory knowledge about the role of villages and its importance in development
Paper 3rd Media Research	CO1: Acquire introductory knowledge about media research. CO2: Understanding theoretical, conceptual & operational framework of research. CO3: Will acquire knowledge of designing research methodology & literature review tools of data collection and data interpretation. CO4: Will acquire knowledge of Exit Poll. CO5: Will acquire knowledge of Opinion Poll.
Paper 4th Public	CO1: Will acquire knowledge of measuring public opinion.

Opinion	CO2: Understanding about public opinion and democratic values. CO3: Acquire introductory knowledge about public opinion and social and cultural issues. CO4: Acquire introductory knowledge about Various Public. CO5: Acquire introductory knowledge about Public Opinion Campaign.
or	
Paper 4th Mass Media & Opinion Polls	CO1: Acquire introductory knowledge about public opinion polls and democracy. CO2: Understanding about how to conduct a poll. CO3: Understanding polls and media. CO4: Understanding polls and Social Media. CO5: Understanding polls and Publics.
Paper 5th practicals and (portfolio)	CO1: Understanding radio jingles for youth. CO2: Radio features. CO3: Production of a short documentary. CO4: Prepare of research Projects. CO5: Prepare of research design.
Paper 6th Vedio journalism	CO1: Acquire introduction knowledge about video journalism, meaning concept and techniques. CO2: Understanding concept of citizen journalist. CO3: Understanding video formats and cameras. CO4: Understanding Scripts and Camera movements. CO5: Understanding video formats Shots.

MA-JMC Semester 4th

Paper 1st Visual Communication	CO1: Acquire introductory knowledge about visual communication. CO2: Will acquire knowledge of various application areas of visual communication. CO3: Acquire knowledge about photo editing and video editing and audio-visual presentation. CO4: Acquire knowledge about Photographs and its uses in Print Media. CO5: Acquire knowledge about Visual Composition.
Or	
Paper 1st Advertising & Public Relations	CO1: Acquire introductory knowledge about definition, scope, concept of ad and PR. CO2: Understanding the role of advertising the role of advertising and social change. CO3: Will acquire knowledge of various types of public and tools of PR. CO4: Will acquire knowledge of various types of Advertising Methods. CO5: Will acquire knowledge of various types of advertising areas.
Paper 3rd Dissertation	CO1: Problem selection and definition. CO2: Understanding objective of the study. CO3: Practical knowledge about data collection. CO4: Practical knowledge about research tools and interprets writing research papers. CO5: Practical knowledge about Thrust areas in Media Research.
Paper 4th Apprenticeship and Project work	CO1: Opens up the students understanding of the subjects (Apprenticeship and Project work). CO2: Students are able to acquire knowledge about field in depth. CO3: Practical knowledge of media industry. CO4: Practical knowledge Print Media. CO5: Practical knowledge of Electronic Media.

Paper 5th Practicals (Advertising & PR)	CO1: Acquire knowledge of copy writing. exercises for print radio and television advertisements. CO2: Understanding to prepare house journal and press releases. CO3: Understanding to Nature and Process of public relations. CO4: Understanding to prepare wall papers. CO5: Understanding to prepare short PR campaigns.
Paper 6th Photography	CO1: Acquire introductory knowledge about photography usages and advantages. CO2: Understanding digital cameras and their basics. CO3: Acquire knowledge about file formats and storing and processing of images. CO4: Acquire knowledge about lights and Colure. CO5: Acquire knowledge about photographic views.

BPA	
Programme Outcome (POs)	
PO1	The student will acquire knowledge and skills needed for professional career as a musician.
PO2	The student will be able to apply the knowledge of Performing Arts for the solution of complex problems in various domains including the cultural, societal, and environmental arenas.
PO3	Students develop an understanding of Concepts, theoretical frameworks, perspectives and methods of inquiry.
PO4	Students learn to appreciate diversity and develop cultural sensitivity.
PO5	Students imbibe human values and become responsible citizens.
PO6	Students are trained to think rationally and critically.
PO7	Recognition of self as an individual with strengths and weaknesses.
PO8	Eligible candidates for admissions to post-graduate programs for further studies.
Programme Specific Outcome (PSOs)	
PSO1	The students will be able to give a practical demonstration of ragas.
PSO2	The students will be able to acquire knowledge about the theoretical aspects of the prescribed ragas.
PSO3	The student will be aware of History and Science of Music and classification of Ragas and Tals.
PSO4	The student will develop skills for stage performance.
PSO5	The student will be able to analyse the various musical forms and of Hindustani Music.
PSO6	The Student will be aware of Shruties in Music

Course Outcome

Semester-I

Paper-I APPLIED THEORY-I	CO1: The Student will acquire theoretical Knowledge of all the prescribed Ragas with illustrations of Nyasa, Alpatva, Bahutva, Avirbhava and Tirobhava by means of notes. CO2: the student will be able to understand how to write a songs in notation in the above Ragas with Alaps, Tans, Bolton's in Khayals and Dugun, Tigunetc. In Dhrupad and Dhamar. CO3 : The student will be able to write following Tals with different types of Layakaries, Dugun, Tigun, Chaugun and Ada.

	CO4: Student will be able to write Essay on related to music. CO5: Student will be able to Critical and detailed study of old Ragas.
Paper-II Science of Music and Studies of Shruties-I	CO1: The student will be aware of vibration and frequency, Pitch and its relation with the vibrator. CO2 : Student will understand the vocal and instrumental ranges of sound, Amplitude, Timber. CO3 : Student will understand qualities of musical and unmusical sound (overtones – Swayambhu swar), Shadajgram, the relation of present day shuddha saptak with shadajgram. CO4 : The student will be aware of consonance and dissonance, main type of chords, Absorption, Echo, Resonance and Reverberation of sound. CO5: Will be aware of Rabindra Sangeet – Giti Natya, Nritya, Baitalik, Varsha Mangal, Basantotsav.
Paper-III Practical	CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Tabla or Folk Music (Subsidiary)	CO1: will have knowledge of ragas. CO2: will have knowledge of Vilambit with Alap Tans. CO3: will have knowledge of Drut Khyal with Alap Tans. CO4: will be aware of General outline of the Ragas. CO5: will be aware of General outline of the Folk Ragas.

Semester-II

Paper-I APPLIED THEORY-II	CO1: will be able to Identify Ragas from given notes. CO2: will be able to interpret Critically, detailed and comparative study of the prescribed Ragas. CO3: will be able to Write Tals with different types of Layakaries. CO4: will be able to Write Tals with different types of Dugun & Tigun. CO5: will be able to Write Tals with different types of Chaugun and Ada.
Paper-II Science of Music and Studies of Shruties-II	CO1: will be aware of Concept of Shruti (Different opinions on it), placement of shuddha and vikruti swars on different shruties according to Lochan, Ahobal. Pundarik, Ramamatya, Somnath etc. CO2: will be ale to compare swars of Northern and Southern Saptak. CO3: will be aware of different school in Hindustani tradition, Rabindra Sangeet and Tagore's Rag-Ragnies. CO4: will be aware of different school in Rabindra Sangeet. CO5: will be aware of different school in Tagore's Rag-Ragnies.
Paper-III Practical	CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Tabla or Folk Music (Subsidiary)	Ability of practical performance of Tabla or Folk Music. CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.

Semester-III

Paper-I Applied Theory-III	CO1: will be aware of Theoretical knowledge of the prescribed Ragas with a critical and comparative study. CO2: will be able to Reading and writing of notation of the prescribed ragas (khyal, dhrupad, dhamar) with illustration of Nyas, Alap, Taan and Taals with prescribed Layakaries. Identification of Ragas from given notes. CO3: aware of musical styles, Geet, Gandharva, Gan, Deshi, Sangeet, Sihaya, Mukhachalan. Raga Lakshan, Raga Lap, Alapti. CO4: will acquire ability to Compare different styles of Indian music viz. Dhupad, Dhamar, Thumri, Tappa, Taranas and their evolution. CO5: will have Knowledge of talas with different types of Layakaries.
Paper-II Notation Systems, Scales	CO1: will be aware of various type of intervals of notes. CO2: will be aware of different musical scales, Diatonic scale, equal tempered scale, pythagorian scale, major and minor scale. CO3: ability to compare Notation systems of Bhatkhande, Vishnu digamber and western music. CO4: writing of simple songs in staff notation, Western notes, time signature and other salient features of western staff notation, Harmony and melody. CO5: Placement of notes on Veena according to Pt. Srinivas.
Paper-III Practical	CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Light Music or Tabla	will be able for practical performance of Light Music or Tabla. CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.

Semester-IV

Paper-I Applied Theory-IV	CO1: ability to Read and write notation of the prescribed ragas (khyal, dhrupad, dhamar) with illustration of Alpatva, Bahutva, Tirobhav and Abirbhav with prescribed Layakaries. Identification of Ragas from given notes. CO2: Will be aware of of musical styles, Akshiptika, Nibaddha and Anibaddha. CO3: Raga Swasthan Niyam, Prachlit Alap, Tan, Meend. Comparative and detailed study of different styles of Indian music viz. Dhupadm Dhamar, Khyal, Chaturang, Trivat and their evolution. CO4: will have knowledge of the folloving talas with different types of Layakaries. CO5: writing of the talas in Dugun and Visham Layakaries, Deepchandi, Forodast, Kumbha , Shikhar.
Paper-II Biographies of Musicians	CO1: will be able to Compare study of northern and southern taal paddhaties. CO2: will be aware of Contribution of various scholars and musicians of medieval period of the Indian Music. CO3: Biographies of Bhatkhande, Vishnudigamber, Amir Khusaroo, Faiyyaz Khan, Pt. Ravi Shankar, Abdul Karim Khan, Bade Gulam Ali, Pt. Omkar Nath Thakur, Bade Ramdas and others of modern period. CO4: Will be aware of Application of Hindustani Ragas in Rabindra Music,

	Manodharma Sangeet, Rag Malika, Divyaprabandham, Different forms of Rabindra Sangeet, History of misic of Bengal. CO5: will be aware of different styles of vocal and instrumental music in Karnatak music and its Guru-Shishya parampara.
Paper-III Practical	Will acquire practical skills on the above two papers CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Light Music or Tabla	Will be able for practical performance of Light Music or Tabla CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.

Semester-V

Paper-I Applied Theory-V	CO1: will have Theoretical knowledge of the prescribed Ragas with their subtle characterstical alongwith illustration of nyasa, Alpatva, Bahutva. CO2: comparative study of ragas, notation in the prescribed ragas and setting of given piece to a raga, Composition of Alap, Tan. Ability to compose 5 compositions on any raga. CO3: Critical study of different styles of music of North, Identification of swaras and ragas by a group of notes in any raga. CO4: will be aware of Gram Moorchhana, knowledge of all previous ragas with chief characterstics. CO5: will have Knowledge of the following tals with different types ofLayakaries, Ada Chautal, Brahma, Lakshami.
Paper-II History of Music and Classification of Ragas and Taals-I	CO1: will be aware of short history of music of ancient period upto 13th century A.D. with particular reference to Natya Shastra, Brihaddeshi, Sangeet Ratnakar. CO2: able to classify ragas and talas, Evolution of various jati-ragas. CO3: Aware of history of music in medieval and modern period, Impact of modern science in the development and propagation of music. CO4: will be acquainted with Music and its inter-relation with painting, drama, dance. CO5: will be acquainted with Music and its inter-relation with drama & dance.
Paper-III Practical	Will acquire practical skills on the above two papers CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Light Music or Tabla	Will be able for practical performance of Light Music or Tabla. CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.

Semester-VI

Paper-I	CO1: will have theoretical knowledge of the prescribed Ragas with their subtle

Applied Theory-VI	characterstical alongwith illustration of Tirobhav, Abirbhav etc. CO2: will be aware of comparative study of ragas. CO3: will be aware of various kinds of Gamak, Kaku, Kutup. CO4: will be aware of various kinds of the types of Layakaries. CO5: will be aware of various kinds of Rudra, Shikhar, Pancham sawari.
Paper-II History of Music and Classification of Ragas and Taals-I	CO1: will be aware of short history of music of meduval period upto 16th century A.D. with particular reference to Venkatmukhi, Pt. Srinivas. Pt. Ahobal, Pt. Ramamatya. CO2 : aware of prabandh schools/gharanas of music and their exponents. CO3: aware of Concept of 'Bandish' (Composition), Comparison of Hindustani and Karnatak music system. CO4: aware of Concept of classification of instruments (Vadya vargikaran). CO5: will be aware of main musicologists and musicians of the modern period.
Paper-III Practical	will acquire practical skills on the above two papers. CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style
Paper-IV Light Music or Tabla	will be able for practical performance of Light Music or Tabla. CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.

MPA	
Programme Outcome (POs)	
PO1	The Students will acquire the cultural knowledge and the professional skills necessary for a career in music.
PO2	The student will be able to demonstrate a broad knowledge of Music Theory.
PO3	The students will acquire hands-on experience with current music and media related technologies.
PO4	The students will acquire ability to demonstrate the skill set needed for music teachers for private and public schools.
PO5	Each Student will be able to demonstrate musicianship skills adequate to support the performance and pedagogy of music.
PO6	will be eligible for admissions to Research programs and also to appear for various competitive exams of PG level eligiblity.
Programme Specific Outcome (PSOs)	
PSO1	The student will acquire ability to analyse ragas and taals.
PSO2	The student will have deep knowledge of History and Science of Music.
PSO3	The student will be aware of different Gharanas and styles of Music.
PSO4	The student will develop skill for stage performance of Lokgeet (Kajari & Thumri) and Sugam Sangeet.
PSO5	The student will be able to create songs inculcating Aesthetic and

	beauty of Music.
PSO6	The student will be able to apply Music Therapy for solving relal life problems.

Course Outcome

Semester-I

Paper-I Analytical Studies of Ragas and Tals-1	CO1: will be aware of different Rag angas and will be able to compare between various kinds of each ang. CO2: will be aware of Alaps and tans. CO3: will have knowledge with ability to illustrate of Allap, Nyasa, combination of Swaras, Talas with Theka and Layakaries, Trital, Chautal, Ektal, Dhamar, Sooltal, Adachar tal. CO4: will have knowledge with ability to illustrate of kaharwa, Dadra, Jhaptal, Tilwada, Roopak, Jhoomar, Basant, Rudra, Pancham, saveri, Lakshmi. CO5: will be able to Write notation of any Drut/Vilambit Khayal in the Ragas with Alaps and Tans.
Paper-II History of Indian Music	CO1: will be azquainted with knowledge of Music in Vedic, Pauranik, Ramayan and Mahabharat periods. CO2: will be azquainted with knowledge of Music in Indian Music during Ancient, Medieval and Modern period. CO3: Will be aware of contributions of Medieval Scholars of Indian Music like Sharangdeo, Somnath, Ahobal, Pundarik Vitthal, Ramamatya, Swami Haridas, Lochan etc in Indian Music. CO4: Will be aware of Origin of Indian Music. CO5: Will be aware of Origin of Music Education.
Paper-III Practicals	Will acquire practical skills in above Paper-I and II. CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Stage Performance	CO1: will acquire stage performing skills of Bhairav, Ahir Bhairav, Anand Bhairav, Nat Bhairav. CO2: will acquire stage performing skills of Gunkali, Bhimpalasi, Patdeep. CO3: will acquire stage performing skills of Hanskinkinj, Vrindavani Sarang, Madhmad Sarang, Miyan Ki Sarang. CO4: will acquire stage performing skills of Khambhawati. CO5: will acquire stage performing skills of Basant Mukhari.
Paper-V Lokgeet (Kajari)	CO1: will be awareand acquire skills for performing Lokgeet (Kajari) Folk Song. CO2: will have knowledge of History of Kajri. CO3: will have knowledge of Religious Value , Subjects of Kajri. CO4: will have knowledge of Notation, Main instruments used in Kajri. CO5: will have knowledge of Singing and about Prominent Singers of Kajri.
Paper-VI Folk Song	CO1: Will be aware of Folk Song. CO2: Will be aware of Folk Songs of Uttar Pradesh. CO3: Will be aware of Social Value of Folk Songs. CO4: Will be aware of Season wise Folk Songs, Sanskar Songs , Agriculture related Folk Songs.

	CO5: Will be aware of Main instruments used in Folk Singing.

Semester-II

Paper-I Analytical Studies of Ragas and Tals-2	CO1: will acquire an ability in Writing notation of Drupad/Dhamar. CO2: will acquire an ability in Writing notation of Alaps, Layakaries, Upaj etc. CO3: Rag classification of Modern Period. CO4: Writing notation of Drut/Vilambit Khayal in the Ragas with Alaps and Tans. CO5: Description of Ragas in Ancient, Medieval and Modern Period.
Paper-II Science of Music	CO1: will be aware of Musical quality and their importance, Shruti, its concepts. CO2: will kave knowledge of Musical scales, their origin and development, Importance of Resonance, Absorption, Consonance, Echo and Reverberation. CO3: will be able to classify Swar Talas and Ragas in Northern and Southern systems of Indian music, CO4: will be able to classify Swarsthan and placement of Shuddha and Vikrut swar by various Scholars. CO5 : will be able to classify Melody and Harmony, Counter point and terminology used.
Paper-III Practicals	Will acquire practical skills in above Paper-I and II CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Stage Performance	CO1: will acquire stage performing skills Bihag, Maroo Bihag. Bihagda. CO2: will acquire stage performing skills Sur Malhar, Nat Malhar, Jayant Malhar, Megh Malhar, Ramdasi Malhar. CO3: will acquire stage performing skills Jog, Jog Kauns. CO4: will acquire stage performing skills Nand, Rageshri. CO5: will acquire stage performing Jhinjhoti and Tilang.
Paper-V Lokgeet (Thumari)	CO1: Will be acquainted with Thumri. CO2: Will be acquainted with Gharanas of Thumri. CO3: Will be acquainted with Type of Thumri, Raagas CO4: Will be acquainted with Notation. CO5: Will be acquainted with Main instruments used in Thumri Songs and Prominent Singers of Thumri.
Paper-VI Gharana & Styles of Music	CO1: will have knowledge of Definition of Gharanas. CO2: will have knowledge of Gharanas origin, development. CO3: will have knowledge of Modern Method of Music education, New trends of Indian Varieties of Gharanas and their exponents. CO4: will be acquainted with Origin and development of our instruments, Different prevalent forms of music in India like Classical, Folk music, Ceremonial music, religious music and Scope and different class of musicology. CO5: ability to compare Indian and Western music.

Semester-III

Paper-I Analytical Studies of	CO1: will have knowledge about Ragas with their typical combination like Alpatva, Bahutva, Abirbhav and Tirobhav.

Ragas and Tals-3	CO2: ability to Write notation of any Drupad/Dhamar in the mentioned Ragas with Alaps, Layakaries, Upaj etc. CO3: ability to compare Ragas with their distinction (contrast) in Sam Prakrati Ragas with illustration of Allap, Nyasa,. CO4: ability to compare Ragas with their distinction (contrast) in Sam Prakrati Ragas with illustration of combination of Swaras. CO5: ability to compare Ragas with their distinction (contrast) in Sam Prakrati Ragas with illustration of chief characteristics.
Paper-II Aesthetic and Beauty of Music	CO1: will be aware of Rasa. CO2: will be aware of Rasa its varieties and its relation with Music. CO3: will be aware of Rasa its the effect of Music on human life, Alankar, Chhand and their relation with Music , Dhyan of Ragas. CO4: will have knowledge of the Principles of Aesthetics, Concept of Beautiful according to Indian Western Scholars. CO5: will have knowledge of the relation of Rag and Ritu and Painting of Ragas.
Paper-III Practicals	Will acquire practical skills in above Paper-I and II CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Stage Performance	CO1: will acquire stage performing skills of Kalyan. CO2: will acquire stage performing skills of Shyam Kalyan. CO3: will acquire stage performing skills of Jait Kalyan. CO4: will acquire stage performing skills of Bilawal, Deogiri Bilawal, Yamni Bilawal, Nat Bilawal, Saurparda Bilawal. CO5: will acquire stage performing skills of Jait shree and Bhatiyar.
Paper-V Sugam Sangeet	CO1: will be acquianted with Sugam Sangeet. CO2: will be acquianted with Sugam Sangeet, its Type. CO3: will be acquianted with Sugam Sangeet, its Raagas. CO4: will be acquianted with Sugam Sangeet, its Notation, Instruments used. CO5: will be acquianted with Sugam Sangeet, its Prominent Singers.
Paper-VI History of Indian Music	CO1: will be azquainted with knowledge of Music in Vedic, Pauranik, Ramayan and Mahabharat periods. CO2: will be azquainted with knowledge of Music in Indian Music during Ancient, Medieval and Modern period. CO3: Will be aware of contributions of Medieval Scholars of Indian Music like Sharangdeo, Somnath, Ahobal, Pundarik Vitthal, Ramamatya, Swami Haridas, Lochan etc in Indian Music. CO4: Will be aware of Origin of Indian Music. CO5: Will be aware of Origin of Indian Music Education.

Semester-IV

Paper-I Analytical Studies of Ragas and Tals-4	CO1: ability to describe and illustrate Alaps and tans. CO2: ability to describe and illustrate tans. CO3: will be able to classify Rag of ancient period. CO4: Ability to Describe Ragas in Ancient. CO5: Ability to Describe Ragas in Medieval and Modern Period.
Paper-II Gharana & Styles of	CO1: will have knowledge of Definition of Gharanas , its origin, development.

Music	CO2: will have knowledge of Modern Method of Music education, New trends of Indian, Varieties of Gharanas and their exponents. CO3: will be acquainted with Origin and development of instruments, Different prevalent forms of music in India like Classical, Folk music, Ceremonial music, religious music and Scope. CO4: will be acquainted different class of musicology. CO5: ability to compare Indian and Western music.
Paper-III Practicals	Will acquire practical skills in above Paper-I and II. CO1: There will be skill development. CO2: The style of learning by doing will come. CO3: The quality of the presenter will develop. CO4: There will be development of stage performance quality. CO5: will be proficient in question and answer style.
Paper-IV Stage Performance	CO1: will acquire stage performing skills of Darbari Kanhada & Naiki Kanhada. CO2: will acquire stage performing skills of Suha Kanhada, Sughral Kanhada, Shahana Kanhada. CO3: will acquire stage performing skills of Kaushiki Kanhada, Abhogi Kanhada. CO4: will acquire stage performing skills of Todi, Gujri Todi, Bilaskhani Todi, Bhupal Todi. CO5: will acquire stage performing skills of Kedar, Maluha, Kedar Hemant, Hansdhwani.
Paper-V Music Therapy	CO1: will be acquzinted with the concept of Music Therapy. CO2: will be acquzinted with the concept of Science behind the music. CO3: will be acquzinted with the concept of The Impact of Music on Our Lives , Health & Music Therapy. CO4: will be acquzinted with the concept of Music for Comfort, Peace, Concentration, Pain & Stress , Raag treatment for some disease. CO5: will be acquzinted with the concept of Music-Based Applications in our day-today life.
Paper-VI Science of Music	CO1: will be aware of Musical quality and their importance , Shruti, its concepts. CO2: will kave knowledge of Musical scales, their origin and development, Importance of Resonance, Absorption, Consonance, Echo and Reverberation. CO3: will be able to classify Swar Talas and Ragas in Northern and Southern systems of Indian music. CO4: will be able to classify Swar Swarsthan and placement of Shuddha and Vikrut swar by various Scholars. CO5: will be able to classify Swar Melody and Harmony, Counter point and terminology used.

MSW	
Programme Outcome (POs)	
PO1	To develop academic Expertise in the domain
PO2	To build the Social Commitment quotient
PO3	To build on team working and leadership capabilities
PO4	To develop a value orient, people centred professional
PO5	To build evidence based research aptitude amongst candidates.
Programme Specific Outcome (PSOs)	

PSO1	Imparting skill based Social Work training leading to proficiency in academic and field learning
PSO2	Training the budding Social Workers in engaging diverse social issues and develop professional self in addressing such issues
PSO3	Demonstrate skills in research based practice and practice based research
PSO4	Equipping the students to practice the primary and secondary methods of Social Work
PSO5	Creating holistic understanding in the national, cultural and ethical values and promotes worth and dignity of client group

Course Outcome

	SEM I Students would be able to :
Social Work : Concept, Philosophy And Professional Development	CO01: Introduction to historical development of Social work across the world. CO02: Historical development of Social Work in India. CO03: Major philosophies guiding the field of Social work incl. Gandhian. CO04: Major philosophies guiding the field of Social Work including Jane Addams. CO05: Social work as a profession.
Social work : Dynamics of Human Behavior	CO01: Introduction to human behaviour – Group dynamics. CO02: Introduction of Human Personality. CO03: Organizational behaviour. CO04: Adjustment and motivation. CO05: Handling emotions, and conflict.
Social Case Work	CO01: Historical Development of Social Case Works in England. CO02: Historical development of Social Work in India. CO03: Principles of Social Case Work. CO04: Techniques of Social Case Work. CO05: Social case work process.
Concurrent field Work	CO01: Develop field skills through active involvement. CO02: Develop working with group. CO03: Working under Field Supervisor. CO04: Report writing skills. CO05: Report presentation.
Labour Welfare	CO01: Labour Welfare – concept, need, scope. CO02: Approaches. CO03: Constitutional of Labour welfare. CO04: Legal Framework of Labour Welfare. CO05:Role of Labour Welfare Officer.
Medical Social Work	CO01: Medical Social work – meaning, need. CO02: Medical Social Work: Scope & Skills. CO03: Role of social factors in health domain. CO04: Role of cultural factors in health domain. CO05: Role of medical social workers at different levels – child

	guidance, family planning, and community centres.
Rural Development	CO01: Rural development- meaning, scope and forms. CO02: Programmes related to rural development. CO03: Policies related to rural development. CO04: Problems, and Factors relevant to the domain. CO05: Role of Agencies.
Gram Pravas	CO01: To familiarize with the ground realities of Indian villages. CO02: Aware about government schemes. CO03: To make relevant observation. CO04: Aware about working NGOs. CO05: Solution to key issues.
Yoga and Health	CO01: Yoga- concept. CO02: Yoga – History. CO03: Yoga – Importance. CO04: Principles of Yoga. CO05:Yoga and Social work.
	SEM II Students would be able to :
Social Group Work	CO01: Social Group work – nature and scope. CO02: Social Group Work – Significance. CO03: Evolving scope of social group work. CO04: Approaches of Social Group Work. CO05: Techniques, and practice of Social Group work.
Social Work Research	CO01: Concept of Social Work Research, - its nature, development and philosophy. CO02: Social Work Research and its interplay with Interdisciplinary. CO03: Trans-disciplinary and Multidisciplinary settings. CO04: Participatory Research, Action Research CO05: Use of Computers in Research.
Community Organization	CO01: Community Organization – meaning, objections. CO02: Community Organization – Process. CO03: Resource mobilization; Lobbying, and Advocacy. CO04: Principles of Community Organization. CO05: Role and Function of Community Organization Worker.
Concurrent field Work	CO01: Develop field skills through active involvement. CO02: Develop skills to working with group. CO03: Working under Field Supervisor. CO04: Report writing skills. CO05: Report Presentation.
Labour Legislation in India	CO01: Factories Act 1948, Mines and plantation act 1952. CO02: Indian Labour Organization. CO03: Indian labour legislation. CO04: Legislations on Payments and minimum setting of wages in India. CO05: Industrial disputes & Trade Unions.
Psychiatric Social Work	CO01: Psychiatric Social Work – Concept. CO02: Psychiatric Social Work – Principles. CO03: History of Psychiatric Social Work.

	CO04: Role of Psychiatric Social Worker. CO05: Characteristics of Psychiatric Social Worker.
Urban Development	CO01: Urban Development- concept, scope. CO02: Urban Development – Goals. CO03: Process and participation in Urban Development. CO04: Concept of Local Self Govt. CO05: Industrial Disputes & Trade Unions.
Rural Entreprenurship	CO01: Rural Entrepreneurship – Concept, Types & Significance. CO02: Understand rural entrepreneurs and their limitations. CO03: Aims of Rural Entrepreneurship. CO04: Search for opportunities, if any. CO03: Problem of Rural Entrepreneurship.
Rural Entrepreneurship	CO01: Rural Entrepreneurship – Concept, Types & Significance. CO02: Understand rural entrepreneurs and their limitations. CO03: Aims of Rural Entrepreneurship. CO04: Search for opportunities, if any. CO03: Problem of Rural Entrepreneurship.
Ganga Protection and Development	CO01: Ganga Pollution – Coauses and Barriers. CO02: Ganga Protection Movements. CO03: Programmes on Ganga Protection. CO04: Policies on Ganga Protection. CO05: Role of Social workers in Ganga Protection.
	SEM III Students would be able to :
Social Action	CO01: Social Action – Meaning, scope. CO02: Social Action – Process. CO03: Models and approaches to social action. CO04: Principles of Social Action. CO05: Problems in mobilization of efforts in social action.
Counselling & Communication	CO01: Counselling & Communication –concept and methods. CO02: Approaches. CO03: Role and application of Psychological Testing. CO04: Communication – Process. CO05: Communications –forms and barriors.
Social policy, Planning & Development	CO01: Social policy concept, characters, models. CO02: Social Policy - Approaches. CO03: Social planning – concept, scope and models. CO04: Social Planning – Indian Experience. CO05: Social development – concept and approaches; Sustainable development ,
Concurrent field Work	CO01: Develop field skills through active involvement. CO02: Develop skills to working with group. CO03: Working under Field Supervisor. CO04: Report writing skills. CO05: Report presentation.
Human Resource Management	CO01: HRM- Concept- philosophy. CO02: HRM - Principles. CO03: Human Resource Planning.

	CO04: HRM – Recruitment. CO05: Workers Participation in Management in India.
Health Psychology	CO01: Health – concepts, Importance. CO02: Health Psychology - Models in the domain. CO03: Health Behaviour- causes and implications. CO04: Stress and Health. CO05: Women, Elderly health issues.
Rural Planning in India	CO01: Rural Planning – concept, history. CO02: Rural Planning – Process. CO03: Programmes of Rural Planning. CO04: Panchayati Raj. CO05: Problems of Rural Planning in India Rural Planning and Social Works.
Personality Development	CO01: Personality – concept, meaning. CO02: Personality Development – Types. CO03: Personality Development; Personality Disorders. CO04: Personality Disorders. CO05: Personality Development programmes.
Social Defense and Security	CO01: Social Defense – Concept & meaning. CO02: Social Defense – Programmes. CO03: Social security- concept and characteristics. CO04: Social Security - Indian experience. CO05: Social security legislations.
Personality Development	CO01: Bem P. Allen :-Personality Theories. CO02: Hall, G.S. and Linzeg G -Theories of Personality CO03: Mun, H.N. :-Personality CO04: Humanistic theory. CO05: Social cognitive theory.
Social Defense and Security	CO01: Social Defense: concept, meaning. CO02: Social Defense: Programmes. CO03: Social security - concept and characteristics. CO04: Social security – Indian experience. CO05: Social security legislations.
	SEM IV Students would be able to :
Social Welfare Administration	CO01: Social Welfare Administration -meaning, scope. CO02: Social Welfare Administration – Process. CO03: Social Welfare- Policies and programmes. CO04: Social Welfare - Budgeting & financial Control; Society. CO05: Registration Act 1860; FCRA; 12A; and 80G.
Demography and Environment	CO01: Populations- determinants, trends, growth. Mortality. CO02: Fertility and Migration. CO03: National Population Policy in India. CO04: Environment Policies in India. CO05: Environment Laws in India.
Human Development and Social Work	CO01: Human Development – concept, theories. CO02: Human Development – Model. CO03: Human Development in Indian Context; Policies.

	CO04: Human Development - Programmes. CO05: Human Development and Social Work.
Concurrent field Work	CO01: Develop field skills through active involvement. CO02: Develop skills to working with group. CO03: Working under Field Supervisor. CO04: Report writing skills. CO05: Report Presentation.
Human Resource Development	CO01: Human Resource Development- concepts & scope. CO02: HRD – Process & Role. CO03:HRD and HRM. CO04: Programmes of HRD. CO05: Strategies of HRD.
Mental Disability and Personality Disorders	CO01: Major Disorders. CO02: Types of personality disorders. CO03: Personality disorders symptoms and causes. CO04: Treatment of Psychotic Disorders and Social work Intervention. CO05: Minor Mental Disability.
Urban Planning in India	CO01: Urban Planning – concept & history. CO02: Urban Planning – Process. CO03: Urban Planning : Approaches programmes. CO04: Urban Planning issues in India. CO05: Rural – Urban Continum.
Disaster Management	CO01: Disaster Management – stages & policies. CO02: Disaster Management – Programmes. CO03: Disaster Management: Challenges, Straggles and Legislation. CO04: Components of Disaster Management. CO05: Disaster Management and Social work.
Social Problems and Solutions	CO01: Social Problems- concept & causes. CO02: Social Problems – Programmes. CO03: Social Problems and Social Work. CO04: Role of Social Workers against Social Problems. CO05: Role of NGOs.
Dissertation	CO01: Dissertation work will be based on Primary Data Collection
Block Placement Report	CO01: Each Student shall be required to prepare and submit a block Placement Report of 45 days. This Block Placement will be conducted in the Specialization related Organization
Tour Report	CO01: Every Student will be required to complete a study tour. This study tour will be organized at that Place where social work Institutions are in function.

Faculty of Science	
B.Sc. [Botany]	
Programme Outcome (POs)	
PO1	Discipline specific competitive exams conducted by service commission
PO2	To facilitate students for taking up and shaping a successful career in

	Botany
PO3	To highlight the potential of these studies to become an entrepreneur
PO4	To equip the students with skills related to laboratory as well as field based studies
Programme Specific Outcome (PSOs)	
PSO1	To make the students aware about conservation and sustainable use of plants
PSO2	To make the students aware of applications of different plants in various industries
PSO3	To create foundation for further studies in Botany
PSO4	To provide thorough knowledge about various plant groups from primitive to highlyevolved
PSO5	To address the socio-economic challenges related to plant sciences
PSO6	

Course Outcome

1st SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I	**Mycology & Microbiology**	• Understand the diversity among Bacteria, Viruses and Fungi • Know the systematic, morphology and structure of Bacteria, Viruses and Fungi • Understand the life cycle pattern of Bacteria, Viruses and Fungi • Understand the useful and harmful activitiesof Bacteria, Viruses and Fungi • Study of Mycoplasm and viruses etc.
Paper II	**Phycology**	• Understand the diversity of Algae • Know the systematic, morphology and structure of Algae • Understand the life cycle pattern of Algae • Understand the useful and harmful activitiesof Algae • Economic important of the Algae.
Paper III	**Bryology**	• Understand the morphological diversity of Bryophytes • Understand the economic importance of the Bryophytes • Know the evolution of Bryophytes • Economic importance of Bryophytes
Practical	**Laboratory**	Students should understand • Study of fungal diversity with respect to Systematic position and morphology • Study of life cycle of *Rhizopus* and *Agaricus* • Gram staining of Bacteria, Study of Algal

		diversity with respect to Systematicposition and morphology, Study of Life cycle of Spirogyra and Sargassum • Study of diversity of Bryophytes with respect to systematic position and morphology • Study of life cycle of *Riccia*

2nd SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I	**Plant Pathology & Lichen**	• Know the terminologies in plant pathology • Understand the features of Lichens • Understand the scope and importance ofPlant Pathology • Know the control measures of plant diseases • To know about Economic role of Lichen.
Paper II	**Pteridology**	• Understand the morphological diversity of Pteridophytes • Understand the economic importance of the Pteridophytes • Know the evolution of Pteridophytes • Type study of certain Pteridophytes.
Paper III	**Gymnospermae and Palaeobotany**	• Understand Gymnosperms with respect to distinguishing characters • Understand comparative study of Angiosperms, economic importance and classification • Understand the life cycles of Pinus and Gnetum • Know the scope of Paleobotany, types of fossils and geological time scale • Understand the various fossil genera representing different fossil groups
Practical	**Laboratory work**	Students should understand • Study of plant diseases w.r.t. causal organisms, symptoms and control measure • Study of diversity of Pteridophytes w.r.t systematic position and morphology • Study of life cycle of *Funaria, Selaginella and Adiantum* • Study of *Pinus* &*Gnetum* • Study of different types of fossils

3rd SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I	**Morphology & Embryology of Angiosperms**	• Understand the habit of the angiospermplant body • Know the vegetative characteristics of the plant

		and learn about the reproductive characteristics of the plant • Understand the plant morphology • Understand structure and development in microsporangium and megasporangium • Know fertilization, endosperm and embryogeny
Paper II	**Taxonomy of Angiosperms**	• Understand the status of angiosperms inplant kingdom • Realize the origin of Angiosperms with respect to time, place, origin and probable ancestors • Understand various angiosperm families emphasizing their morphology, distinctive features and biology • Know the role of cytology and Phytochemistry in Taxonomy • Characters and taxonomy of various families.
Paper III	**Plant Anatomy**	• Understand the scope & importance of Anatomy • Know various tissue systems • Understand the normal and anomalous secondary growth in plants and their causes. • Secondary growth and their abnormalities. • Cambium and its product.
Practical	**Laboratory**	Students should understand, • Study of epidermal tissue system and mechanical tissue system • Study of normal secondary growth in stem and root of woody dicots • Study of anomalous secondary growth in the stem of the Plants & study of Phenology of fruits, vegetables orflowering crops • Study of the families with respect to morphological characters using botanical terms, floral formula, floral diagram and classification giving • Identification of genus and species with the help of flora of the plant materials

4th SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I	**Plant Physiology**	• Know importance and scope of plant physiology & plant cells inrelation to water • Understand the process of photosynthesisin higher plants with particular emphasis on light and dark reactions, C3 and C4 pathways • Understand the respiration in higher plants with particular emphasis on aerobicand anaerobic respiration • Learn about the movement of sap and absorption of water in plant body • Understand the plant movements
Paper II	**Genetics & Cell Biology**	• Gain knowledge about "Cell Science - Cell wall Plasma membrane,Cell organelles and cell division • Understand the "Science of Heredity & to realize the role of genes in evolution of species • To understand linkage, segregation and mutation of genes during evolution. • Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material • Understand the process of synthesis of proteins and role of genetic code in polypeptide formation
Paper III	**Economic Botany**	• Understand the plants for human welfare • Concept in different types of wood • Learn medicinal role of plants • Economic importance of beverages • Role of plant fibre in economics
Practical	**Laboratory**	Students should understand, • To study of chromosomal aberrations in plant • Determination of Mitotic index • To study metaphase frequency in plant material • Isolation and estimation of DNA from suitable plant material • Estimation of Biomass

5th SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I	**Ecology and Environment**	• Know the scope and importance of the discipline

		• Understand plant communities and ecological adaptations in plants • Learn about conservation of biodiversity, • Learn about nonconventional Energy and their pollution • Discover botanical regions of India and vegetation types
Paper II	**Biochemistry& Plant Tissue Culture**	• Understand the current status of Biochemistry & recognize the impact of Biochemistry onsocioeconomic aspects of life • Realize the industrial application of Biochemistry • Understand the importance of Bio-molecules • Understand the fundamentals of totipotency plant tissue culture techniques • Understand technique of plant tissue culture and its application.
Paper III	**Ethno botany & Plant propagation**	• Understand the importance and scope of botanical science in the Property right • Learn the plants in context with tribal population • Understand some plants which are used as herbal cosmetics • Know the process of cultivation of cash crops • Study of Embryonic culture and morphogenesis
Practical	**Laboratory**	Students should understand, • To study on Morphology, Taxonomy of Thallusorganization, Reproduction, Life Cycle, Phylogeny and interrelationships • Extraction and separation of free amino acid of germinating seed by circular paper chromatography • To study the activity of enzyme lipase in germinating seeds and extraction & Detection of secondary plantmetabolites from suitable plant material • Study Mitosis and Meiosis • Preparation of Cytological fixative and stains

6th SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I	**Plant diversity& Forestry**	• To understand methods of preservation & preparation of preserve product • To understand production technology,

		harvesting technics • To study role played by green & playhousesin horticulture • Concept forming regards various types of forests in India • Social Forestry
Paper II	**Molecular Biology& Biotechnology**	• Learn the scope and importance of molecular biology • Understand the process of synthesis of proteins and role of genetic code in polypeptide formation • Know the transgenic technology for the improvement of quality and quantity of plant and thereby product • Understand the advantages of in vitro propagation in various areas • Realize the application and importance of plant tissue culture and transgenic plants
Paper III	**Plant Breeding and Elementary biostatics**	• Understand the science of plant breeding • To introduce the student with branch of plant breeding for the survival of human being from starvation • To study the techniques of production of new superior crop verities • To study the evolution in living organisms • Understand Data interpretation, analysis, Graphical representation and evaluation etc.
Practical	**Laboratory**	Students should understand, • Study of various instruments used for plant biotechnology • DNA separation with the help of gel electrophoresis • Preparation of explants and inoculation on nutrient media for callus induction, Sub-culture of callus and regeneration of plants from callus • Hardening techniques of tissue culture plantlets • Preparation of stock solutions of MS medium and plant growth regulator stocks

M.Sc.[Botany]	
Programme Outcome (POs)	
PO1	Students would be benefited with knowledge of core subjects like plant diversity, physiology and biochemistry, molecular cytogenetics and application of statistics etc. which are offered in these subjects Modules on analytical techniques, plant tissue culture and

	phytochemistry would make them obtain skills in doing research. All the courses in the programme are carefully designed to equip the students for competitive exams like CSIR NET, SET etc. and to write research proposals for grants.
PO2	*Application of knowledge:* ***Maintain a high level of scientific excellence in botanical research with specific emphasis on the role of plants. Create, select and apply appropriate techniques, resources and modern technology in multidisciplinary way. Practice of subject with knowledge to design experiments, analyze and interpret data to reach to an effective conclusion.***
PO3	Ability to covey the concept clearly They would identify, formulate and analyze the complex problems with reaching a substantiated conclusion. Logical thinking with application of biological, physical and chemical sciences. Learning that develops analytical and integrative problem-solving approaches.
PO4	***Team work: Students would perform functions that demand higher competence in national / international organizations with sporty spirits and helping each other.***
PO5	**Honesty and Integrity, Ethics:** Student should be aware of ethical issues and regulatory considerations while addressing society needs for growth with honesty
PO6	Environmental and Sustainability Best problem-solving skills in students would encourage them to carry out innovative researchprojects thereby making them to use knowledge creation in depth.
PO7	Lifelong learning and motivating others to learn They would lend the supportto other students to grow with them with equalopportunities.
PO8	Global thinking Knowledgeable disciple students with good values, ethics, kind heart will help in nation building globally
Programme Specific Outcome (PSOs)	
PSO1	Understanding the classification of plants from cryptogams to Spermatophyte. Identification of the flora in field. Studyof biodiversity in relation to habitat correlate with climate change, land and forest degradation. Application of Botany in agriculture through study of plant pathology. Paleobotany to trace the evolution of plants.

PSO2	Understand the ultrastructure and function of cell membranes, cell communications, signaling, genetics, anatomy, taxonomy, ecology and plant Physiology and biochemistry. To understand the multi functionality of plant cells in production of fine chemicals. There wide spread industrial applications.
PSO3	Molecular and Physiological adaptations in plants in response to biotic and abiotic stress. Genes responsible for stresstolerance genetic engineering of plants.

Course Outcome
Semester-I

1st SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I (Core)	Phycology & Bryology	• Achieve the adequate knowledge on comparative account of various algal and bryophytes' divisions • Learn the phylogeny and evolutionary concepts in lower group of organisms • Study of the occurrence, distribution, structure and life history of lower plants such as algae, lichens, bryophytes • Classification, evolution and general study of Bryophytes. • Distribution patterns of Bryophytes in India and world.
Paper II (Core)	Mycology & Microbiology	• Understand about the occurrence, distribution, structure and life history of fungi • Learn of different groups • Know about classification, characteristics, ultra structure of Prokaryotic and Eukaryotic microbe • Obtain knowledge about Host parasite interaction of different common occurring plant diseases • Study of Microbial development
Paper III (Core)	Pteridology &Gymnosperms	Study and imparting the knowledge about the occurrence Distribution, structure and life history of lower plants such as pteridophytes and gymnosperms Learn the phylogeny and evolutionary concepts in lower group of organisms Gain adequate knowledge on comparative account of variousPteridophytes and Gymnosperms divisions Distribution of Gymnosperm in India

		and its ecological status
Paper IV (Elective)	Palaeobotany	E1. Understand the various fossil genera representing the different fossil groups Gain knowledge about the scope of Paleobotany, types of fossils and geological time scale Understand the role of fossil in oil exploration and coalexcavation, study of paleopalynology Applied Palaeobotany Fundamentals of Paleofloristics
	Plant Pathology	• Know about organisms and the causal factors responsible for plant diseases & methods of studying plantdiseases • Familiarize with some common and indigenous native plantdiseases and their remedial measure • Gain knowledge about the host parasite interactionprocesses • Study of Microorganism based disease. • Molecular Pathology.
	Applied Phycology	• Get adequate knowledge on comparative account ofvariousfresh water and marine algal divisions • Familiarize with the industrial role of algae in water quality improvement, bioenergy and biofuel productions • Define the eco and physiological aspects of synthetic andniche portioning behaviour of algae • Study of Algal Biomass and its use. • Role of Algae in society.

(***Practical***)	**Based on BOT 101, BOT 102 & BOT 103**	• Provide the materials of different plant groups fortheir morphological and anatomical studies • Use the light microscope for the study of prepared andhandmade slides of plant parts • Learn the art of making line diagrams in practicalrecord • Learn the practical ride of what has been explained intheory class • Familiarize with the external and internal structure oflower group organism • Learn the microscopic technique • Learn the survey techniques for evaluating the values ofmedicinal plants • Know about the cellular drawing • Gain knowledge on plant pathological diseases • Gain knowledge on various biological methods ofanalysis
Paper V (***Skill Development***)	**Applied Microbiology**	• Learn the role of microorganisms in various disciplines • Role of microorganism in agriculture, Food production, medicine, milks products • To learn water treatments in industry • Familiarizing the mass cultivation of microorganisms atindustrial scale • Gaining the knowledge of microorganisms for human welfare
Paper VI (***Interdisciplinary***)	**Bio-fertilizer**	• Understand various aspects of organic farmingsystems • Know about the significance of green Manuring &Biofertilisers • Learn the technique of composting and vermitechnology • Familiarize on Pest, insect, weed, disease, crop • Management of biofertilizers

2nd SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I ***(Core)***	**Angiosperms-Morphology, Taxonomy, Anatomy & Embryology**	• Learn about system of classification with merits and demerits • Familiarize with the methods of plant Identification • Taxonomic study of angiosperms. • Merismetic study of Angiosperms. • Study of developmental biology.
Paper II ***(Core)***	**Plant Physiology & Biochemistry**	• Know about the requirement of mineral nutrition forplant growth • Understand the process of Photosynthesis, Respiration and Nitrogen metabolism • Learn about Sensory photobiology and to know about the Plant Growth hormones (Auxins,Gibberellins. Cytokinins, Ethylene) • Understand the biosynthesis of terpenes, phenols andnitrogenous compounds, remember the concept of the Stress physiology • Learn about basics of biosafety and good lab practices like safe chemical handling, Hazardous wastes, management, Safe and proper use of lab equipments
Paper III **(*Core)***	**Cell & Molecular Biology**	• Learn about structural organization and function of intracellular organelles • Gain knowledge on the organization of genes and chromosomes • Study about the structure of atoms, molecules and chemical bonds & Composition, structure and functionof biomolecules • Gain knowledge on the principles of biophysical chemistry & Bioenergetics • Memorize knowledge on methods of molecular separation and characterization

Paper IV (*Elective*)	**Pollination Biology**	• Learn about attract insect by pollinators • Gain knowledge the bracts contrast in color with theleaves and other parts • Study about the floret biology of plants • Foraging Economics • Role of Pollinators in Agriculture
	Photobiology of Cyanobacteria	• E2. Learn about role of microalgae in biofuel, Bioenergyproduction and in Bioremediation and Bio magnification • Gain knowledge the effect of UV and Visible lighton cyanobacteria • Study the physiological aspects of cyanobacteria regarding photosynthetic light such as Photochemical, Nonphotochemical and Light Harvesting complex • Cyanobacteria and study of their toxin • Biochemical and ecological impact of Cyanobacteria
	Floristic Diversity	• E3. Learn about Olericulture - Cultivation of commercialflower crops • Recall the importance of horticulture – career and occupational opportunities • Learn the techniques of gardening - Types, Methods & Tools • Flowering pattern and its regulation. • Techniques about flower harvesting.
(*Practical*)	**Based on BOT 201, BOT 202 & BOT 203**	• Study of economically useful plants
		• Learn to solve various genetic problems • Know to construct Chromosome mapping • Institutional visit to BSI and a field study and plantcollection for herbarium
Paper V (*Skill Development*)	**Food Processing**	• Concept of food and nutrients and energy valueof food. • Understand the problems of Food adulteration • Learn about Therapeutic diets & Diet planning • Govern the methods in food

		processing – thermalprocessing, refrigeration, freezing etc • Learn about food Quality & food standards
Paper VI (*Interdisciplinary*)	**Statistical Methods**	• Learn the methods of Biostatistics and its applicationin biology • Know about the data analysis concepts in various field of botany • Test of significance • Study of experimental design • Multivariate analysis

3rd SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I *(Core)*	**Morpho genesis, Tissue culture & Develop mental Botany**	• Understand the history, Scope and Concepts inplant tissue culture • Learn the Techniques in Commercial plant tissueculture • Know about the application of tissue culture in forestry, horticulture, agriculture and pharmaceuticalindustry • Understand the vascular tissues, structureof woods and anomalous secondary growth • Understand structure and development of microsporangium, megasporangium, embryo and endosperm
Paper II *(Core)*	**Genetics, Plant Breeding & Organic Evolution**	• Learn about Mendelian principles and know about gene mapping methods & Extrachromosomal inheritance • Familiarize about Evolution & Emergence ofevolutionary thoughts, and gain knowledge on Population genetics • Know in detail about breeding systems & techniques of Hybridization • Learn about the selection methods for self-pollinated, cross pollinated plants • Understand the role of mutations in plant breeding

Paper III ***(Core)***	**Plant Ecology & Environment**	• Approaches to the study of Ecology (Autecology, Synecology and Genecology) • Population Ecology - concept of metapopulation • Principles of Toxicology and types of Toxins, sources, metabolism and Biological monitoring • Study of ecosystem and its type. • Applied ecology (pollution, global warming, reserve forest, national parks etc.)
Paper IV (*Elective*)	**Environmental Quality Assessment**	• **E1.** Principles of Toxicology and types of Toxins,sources, metabolism and Biological monitoring • Know about IPR, Biosaftey, Biopiracy,Bioterrorism and Bioethics related with environmental impact and policy • Study of environmental management. • Study of environmental impact assessment (EIA). • Rules and regulations about environmental assessment.
	Vegetative Propagation	• **E2.** Learn the techniques of Hybridization • Learning about the selection methods for selfpollinated, cross pollinated plants • Know in detail about vegetative propagationsystems • Study of Nursery & its types. • Techniques of Nursery development.

	Instrumentation	• E3. Learn about Instruments working functionsand applications in the analysis of botanical data • Learn the approaches and methods in study ofusing sophisticated instruments • Know about the characterizations of bioorganic molecules and their applied role in human welfare • Study of chromatography and importance. • Importance of biophysics in Botany.
(*Practical*)	**Based on BOT 301, BOT 302 & BOT 303**	• Qualitative assessment of microelements in plant ash • Demonstration, working and uses of ecologicalinstruments. • Study of morphological and anatomical adaptationin locally available hydrophyte and Xerophyte • Solve Problems from population genetics – HardyWeinberg law • Know to construct Chromosome mapping
Paper V (*Skill Development*)	**Pomology**	• Learn the techniques in Pomology • Cultivation ofimportant fruit crops & tree species • Learn the importance of Pomology – career and occupational opportunities • Learn the techniques of Pomology such as pre andpost-harvest technology • Geographical patterns of crop distribution
Paper VI (*Interdisciplinary*)	**Forestry**	• Know about the forestry programme managementsystem • Learn the wild life conservation and management • Learn the tree physiology and balanced the needfor timber • Agro Forestry • Forest Protection Act & Policies

4th SEMESTER

Paper	Course Title	Course Learning Outcome
Paper I ***(Core)***	**Plant diversificatio n & Resource Utilization**	• Learn about diversity of lower Cryptogrammic to thestatus of higher cryptogams plants in nature • Understand the economic value of plant products • Develop the different types of seed and its commercial utilization • Gain the knowledge about various plants parts utilization • Timber plants – classification & importance
Paper II ***(Core)***	**Biotechnology & Genetic Engineering**	• Understand the biochemical nature of nucleic acids. • Role of biochemicals in living system. • Experimental evidences to prove DNA as a genetic material. • Understand the process of synthesis of proteinsand role of genetic code in polypeptide formation • Illustrative knowledge of Genomic and chromosomal DNA isolation, Purification
Paper III	**Dissertation**	• Each candidate should take up a Project Work; Under the folloeing expertise area 1. Bryology field collection in Indian context 2. Plant Growth Promoting Rhizobacteria 3. Plant Pathological aspects of native plant diseases 4. Plant Anatomical insights of rare plants 5. Synthetic Ecology of cyanobacteria and microalgae of fresh water and halo tolerant strainsfor CO_2 sequestration and mitigation Submit Project Report at the end of the second year.The candidate concerned will have to defend his project work in a open Viva– Voce examination

Paper IV (*Elective*)	Plant Protectionor	• Learn about merits and demerits of plant protection • Understand the biodiversity of lower cryptogams tohigher plants • Gain the strategy of plant protection and its utilization • Disease and its type • Molecular plant pathology
	Bioinformatics	• E2. Know about the bioinformatic concepts • Gain Bioinformatic tools such as BLAST, FASTA etc. • Understand structural, functional and molecular aspectsof IN Silico concept. • Study of bioethics and its importance. • Property Organization (WIPO) and its role
	Bioenergy	• E3. Learn about the sources of bioenergy • Understand the solid waste management of ecofriendly impacts. • Gain the knowledge about renewable energy sources • Develop the concept of Biodiversity ecosystemfunctioning and its services • General reactions of amino acid metabolism
(*Practical*)	Based on BOT 401 & BOT 402	• Concept making on Genomic DNA and Chromosomal DNAisolation • Discriminate on the biochemical aspects of environment such as Protein estimation, carbohydrates estimation andlipid estimation • Profiling Protein purification, Bioactive compounds charactarizion etc. • Understanding the concept of gene, protein, DNA and RNA • Discriminating among the term Isolation, estimation, purification, identification and characterization
Paper V (*Skill Development*)	Bioprocess Engineering	• Understanding the media optimization Process • Learning the media preparation for mass productin • Design Bioreactor , Biofermentor for specific organismscultivation • Develop Industrial scale

		production of humanitydemand • Role of instruments in detecting environmental factors.
Paper VI (*Interdisciplinary*)	**Herbal Medicine**	• Know about history and relevance of herbal drugsin local and overall Indian system of medicine • Understand the techniques for drug evaluation (Chemical, Physical and Biological) • Phytochemicalinvestigations, standardization and quality control ofherbal drugs. • Know the technique of medicinal gardening - Cultivation practices, marketing and utilization of selected medicinal plants • Learn the macroscopic and microscopic characters, chemical constituents, adulterants, therapeutically and pharmaceutical uses of medicinal plants

B.Sc. [Zoology]	
Programme Outcome (POs)	
PO1	After completion of the programme students will have the conceptual and practical knowledge about basic and advance courses for utilizing it in seeking of jobs and self employment.
PO2	The students get opportunities to become technical expert in the government as well as private sector jobs, especially in the filed of environmental pollution, fisheries, molecular biology laboratories etc.
PO3	The students get opportunities in various competitive exams like civil services, defence, and other graduate level exams.
PO4	Students join various higher studies in advance courses in India and abroad and obtain better job opportunity and play role for social improvement.
Programme Specific Outcome (PSOs)	

PSO1	The students get opportunities to become technical expert in the government as well as private sector jobs, especially in the filed of environmental pollution, fisheries, molecular biology laboratories etc.

COURSE LEARNING OUTCOMES

B.Sc. I Semester

Paper I: Lower Non-chordate (BOZ101)

COURSE OUTCOMES- B.Sc. [Zoology]

Semester-I

Paper-I Lower non-chordate (BOZ101)	CO.1 Describe unique characters and diversity of protozoa and type study CO.2 Describe unique characters and diversity of porifera and type study CO.3 Describe unique characters and diversity of coelenterata and type study CO.4 Describe unique characters of platyhelminthes and type study CO.5 Describe unique characters of Aschelminthes and type study
Paper-II Higher non-chordate (BOZ 102)	CO.1 Describe unique characters of annelids and life functions of the organisms
	CO. Describe unique characters of arthropods and life functions of the organisms
	CO.3 Describe unique characters of mollusca and life functions of the organisms
	CO.4 Describe unique characters of echinoderms and life functions of the organisms.
	CO. 5 Describe unique characters of hemichordates and life functions of the organisms belong to this group
Paper-III Taxonomy &Evolution (BOZ103)	CO.1 Understand the relation between Taxonomy & evolution and describe Zoological nomenclature.
	CO.2 Understand theories of evolution and origin
	CO.3 Understand the various theories; Lamarckism and Darwinism
	CO.4 Understand the mutation and isolations
	CO.5 Understand the speciation and mimicry pattern
Practical	Practical understanding of nervous system of the animals with models. Prepare permanent slides and museum conservations. Know about Taxonomic

(BOZ 104)	identification and characteristic features. Know about animal evolution through practical process

CO1.

Semester-II

Paper-I Chordates (BOZ 201)	CO.1 Understand unique characters of Urochordates, cephalochordates
	CO.2 Understand unique characters of fishes and type study
	CO.3 Understand unique characters amphibian and reptiles and their features
	CO. 4 Understand unique characters of birds and their migration features
	CO.5 Understand unique characters of mammals
Paper- II Animal Physiology (BOZ 202)	CO.1 Understand the physiology at cellular and system levels
	CO.2 Describe the physiology of respiratory, renal, digestion and reproductive systems
	CO.3 to define normal and abnormal functions
	CO.4 Understand how physiological parameters are measured in mammals
	CO.5 Understand solution and their transport of molecule
Paper-III Endocrinology & Comparative Anatomy (BOZ 203)	CO.1 Understand the endocrine system and their functions
	CO.2 Describe the physiology endocrine and reproductive systems to define normal and abnormal functions.
	CO.3 Describe the functioning of hormones
	CO.4 Understand the comparative anatomy of the various systems
	CO.5 Understand the comparative anatomy of the brain
Practical (BOZ 204)	Know about afferent and efferent arterial system of *Scoliodon* through practical process. Know about cranial nerves, internal ear nervous system of the animals with practical models. Prepare the permanent slides and museum conservations. Know about vertebrate physiological study through experiments. Endocrine gland and its functions.

Semester-III

Paper-I Cell Biology &	CO.1 Differentiate between prokaryotes and eukaryotes cells and their structure functions

Immunology (BOZ 301)	CO.2 Understand the importance of the nucleus and its components.
	CO.3 Understand how the endoplasmic reticulum and Golgi apparatus interact with one another and know with which other organelles they are associated
	CO.4 Understand and explain the basic concepts of immune system and how it helps a person to overcome various types of diseases
	CO.5 Understand and antigen and antibody reactions and Immune disorder
Paper- II Genetics (BOZ 302)	CO.1 Understand comprehensive and detailed understanding of the chemical basis of heredity.
	CO. 2 Understand about role of mutation and nucleic acid in genetics
	CO. 3 Evaluate conclusions that are based on genetic data
	CO. 4 Understand results of genetic experimentation in animals
	CO. 5 Understand the molecular and cytoplasmic inhertance
Paper-III Biochemistry (BOZ 303)	CO.1 Understand the physiology at cellular and system levels
	CO.2 Describe the role and functions of different biomolecules
	CO.3 Describe the physiology of glycolysis, Kreb's Cycle, oxidative phosphorylation and Electron Transport system
	CO.4 Understand the mechanisms of Gluconeogeneis, Cori's cycle, Urea cycle, fatty acid synthesis and enzymes.
	CO.5 Understand role of vitamins for health
Practical (BOZ 304)	Know about cell division mitosis and meiosis through experiment. Know about immunological study with staining methods and blood group detection. Know experimentally about genetic disorders and sex linked disease

Semester-IV

Paper-I Ecology (BOZ 401)	CO.1 Understand the concept of ecology and its type
	CO.2 Understand various ecosystems
	CO.3 Describe various natural biogeochemical cycles and law of energy flow
	CO.4 Understand the population dynamics and age structure

	CO.5 Understand the communities in the ecosystem
Paper-II Wild Life Management (BOZ 402)	CO.1 Understand the wild life, its type and management
	CO.2 Understand various rules and act for conservations and also public movements to conserve the wild life
	CO.3 Know about endangered flora and fauna and national parks and sanctuaries
	CO.4 Know about the national parks and sanctuaries and their role
	CO.5 Understand the various environmental movement by human beings
Paper-III Instrumentation (BOZ 403)	CO.1 Understand principals and functioning of Centrifuge
	CO.2 Develop skill for handling electrophoresis and chromatography
	CO.3 Understand principals and functioning of various microscopes
	CO.4 Understand principals and functioning of electron microscopes
	CO.5 Understand principals and functioning of microtome
Practical (BOZ 404)	Understand physicochemical study of water and soil through practical methods. Know adoption through experiment/model methods. Know wild life study through model sheet. Experimental knowledge of various biological instruments

Semester-V

Paper-I Economic Zoology (BOZ 501)	CO.1 Understand the life cycle of various kinds of useful insects
	CO.2 Know about pest and their managements
	CO.3 Know about protozoan disease and its impact on human health
	CO.4 Know about life cycle and culture of useful insects
	CO.5 Know about life cycle and knowledge aquatic culture
Paper-II Animal Behaviour (BOZ 502)	CO.1 Understand animal behavior and its type
	CO.2 Understand migration and social behavior of animals
	CO.3Understand reproduction and courtship behaviour
	CO.4 Understand motivational behaviour of animals
	CO. 5 Understand role of hormones in behaviour
Paper-III	CO.1 Know about pollution and its impact on human health
	CO.2 Know about various kinds of natural resources

Environmental Biology (BOZ 503EB)	CO.3Understand about biodiversity concept and its role in environment
	CO.4 Know about various kinds of techniques for environment conservation
	CO.5 Know solid –waste management and its role
Paper-III Vermi-composting (BOZ 503V)	CO.1 Able to understand conceptual knowledge of Vermicomposting
	CO.2 Able to understand practical knowledge of Vermitechnology
	CO. 3 Able to know about how to use Vermitechnology for self employment
	CO.4 Student able to know about farming in rural areas
	CO.5 Student able to know about practical application of the Vermicompostin
Practical (BOZ 504)	Know experimental knowledge of the life cycle of the insect pests. Know about preparation and submission project based on animal behaviour. Know about experimental estimation of the water quality and biodiversity study from various ecosystems

Semester-VI

Paper-I Molecular Biology (BOZ 601)	CO.1 Understand structure and functions of DNA
	CO.2 Understand structure and functions of RNA
	CO.3 Know about the protein synthesis in prokaryotic cells
	CO.4 Understand gene and its function
	CO.5 Understand the gene expressions in various models
Paper-II Genetic Engineering (BOZ 602)	CO.1 Know about genetic engineering and cloning
	CO.2 Understand DNA finger printing
	CO.3 Know about Gene therapy and Gene Library
	CO.4 Know about job orientation in genetic engineering technology
	CO.5 Knowledge about vaccine
Paper-III Biostatistics (BOZ 603)	CO.1 Understand biological data collection and analysis
	CO.2 Know about data presentation in various method like charts, graphs,
	CO.3 Know about determining the level of data significance
	CO. 4 Know about various methods for data testing
	CO.5 Knowledge about hypothesis and types
Paper-III Biostatistics	CO.1 Students able to gain knowledge about bio-informatics
	CO.2 Students able to know about data base study of nucleic acid

(BOZ 603)	sequence
	CO.3 Students able to know about scientific role of bioinformatics in research
	CO.4 Students able to know about multiple sequence, primer designing
	CO.5 Students able to know genomics and microarray
Practical (BOZ 604)	Know about molecular study based on models experiments. Know about genetic engineering like cloning, Recombinant Technology through work sheet. Know about biological data collection, analysis, presentation and interpretation

M.Sc.[Zoology]

Programme Outcome (POs)

PO1 The objective of the M.Sc. Zoology is to teach and learn the significance of fauna in and their biology related from animals of single cell to multi-cellular systems.

PO2 To provide knowledge about biochemistry, biotechnology, immunology, Developmental Biology and Molecular Genetics apart from classical subjects like invertebrates, chordates and their ecology and evolution.

PO3 To understand the value of fauna and its relevance to the society and our environment

PO4 To understand the impact of climate change on faunal diversity and their survival.

PO5 To equip ourselves to fit for entrepreneur with special attention on Aquaculture, Apiculture, Sericulture, medical lab technology etc.

PO6 To give confidence to students from multiple disciplines to experience research in the field of fundamental and advanced Zoology.

PO7 To provide knowledge to the students for utilizing the research experience and create the new ideas and develop the new products from this filed.

PO8 To provide wide opportunities in scientific research to address the society needs

Programme Specific Outcome (PSOs)

PSO1 The students will be able to know about working principles, design guidelines and experimental skills of different fields of Zoology such as Genetics and Cell Biology, Ecology, Biochemistry, Molecular Biology, Biostatistics, Biodiversity, Physiology, Endocrinology, Developmental Biology, Biochemical Techniques, Animal tissue culture, Environmental Biology, Fishery Science, Cell Biology etc.

PSO2 The course is especially designed for job oriented and self employment purpose because of having skill development & specialization papers. The syllabus covers almost all the advance knowledge and basic knowledge of zoology.

Course Outcome-M.Sc. [Zoology]

Semester-I

Paper-I (Zoo101) Non-Chordates	CO.1 Understand about the primitive as well as higher non-chordates animals.
	CO.2 Understand about the host-parasite relationship
	CO.3 Understand the specialized systems for high in Annelida and Mollusca
	CO.4 Understand the specialized systems for high in Arthropoda
	CO.5 Knowledge about features and characters of some minor phyla
Paper-II (Zoo102) Evolution & Biostatistics	CO.1 Exploring the basic and advance knowledge about animal origin
	CO.2 Understand the evolutionary trends of the animals
	CO.3 Biostatistics helps to understand the nature of variability
	CO.4 Derive general laws from small samples by biostatistics
	CO. 5 Understand about the correlations and test
Paper-III (Zoo103) Ecology	CO.1 Understand the ecological concept
	CO.2 Understand the various ecosystem freshwater and marine
	CO.3 Use of biomarkers and remote sensing to better understanding of nature
	CO.4 Understand the population ecology, statistical ecology and molecular ecology
	CO.5 Improve our environment, manage our natural resources, and protect human health
Paper-IV (ZOO104BW) Biodiversity & Wildlife	CO.1 Know the nature's balance ecosystems with healthy populations
	CO.2 Know about biodiversity and its mathematical expression
	CO.3 Understand the ecological importance, economic importance, investigatory importance, conservation of biological diversities.
	CO.4 Become nature expert and wildlife expert
	CO.5 Find job opportunity as of EIA, EMP expert
Elective Paper Paper-IV (ZOO104 IM) Immunology	CO. 1 Know about immunity and types of immunity
	CO. 2 Understand the antigens-antibodies relation and their properties
	CO. 3 Know about vaccines, vaccination and diseases
	CO. 4 Get scientific research post and technical post
	CO. 5 Relation with Immune system and health disease
Paper-IV (ZOO104AZ) Applied Zoology	CO.1 Know about human health related disease
	CO.2 Understand various kind of epidemic disease and their prevention and control
	CO.3 Understand with various parasitic protozoan and their impacts.
	CO.4 Get self employment jobs like dairy industry and its role
	CO.5 Get self employment jobs like poultry industry and role in society
Skill	CO.1 Know about globally important culture like prawn and pearl culture
	CO.2 Get self employment like fish, prawn and pearl culture

Development Paper-V (Zoo105) Aquaculture	CO.3 Learn composite fish culture as a popular practice specially in rural people
Interdisciplinary Paper Paper-VI (Zoo106) Public Health & Hygiene	(Not for Zoology Students) CO.1 Impart knowledge about advance concepts of Public health and hygiene
	CO.2 Know about composition of food and balance diet
	CO.3 Gain knowledge about some common diseases their causes
	CO.4 Know about prevention and treatment of the disease
	CO.5 Understand the communicable and non-communicable disease
Practical (ZOO107)	CO.1 Understand the nervous systems study trough practical models. Know about how to prepare permanent slides and specimen preservations. Upgrade the knowledge about taxonomy and identifying features of the animals of different phylum, to understand physico-chemical study of the water and soil and learn statistical estimation and analysis of the biological data

Semester II

Paper-I (ZOO201) Chordata	CO.1 Know about the origin of the chordates
	CO.2 Know about vertebrates animals and their characteristic features
	CO.3 Know about various physiological functions of the animals
	CO.4 Know relation between and among various vertebrates group
	CO. 5 Understand adoptive features of the animals
Paper-II (ZOO202) Animal Physiology & Instrumentation	CO.1 Understand about structure and function of kidney and heart
	CO.2 Regulation mechanism of various physiological process
	CO.3 Know handling and operating knowledge of various biological instruments
	CO.4 Able to obtain jobs in clinical pathology
	CO. 5 Understand the principle and functioning of the different types of microscope
Paper-III (ZOO203) Developmental Biology & Animal Behaviour	CO.1 Know about basic concept of embryonic development
	CO.2 Know about aging, stem cell and their application
	CO.3 Know about various kinds of animal behaviour
	CO.4 Know about social and sexual behaviour
	CO.5 Know about signaling communications
Elective Paper Paper-IV (ZOO204EN) Endocrinology	CO.1 Know about endocrine gland and its role
	CO.2 Know about the mechanism hormonal
	CO.3 Know about disease caused by various hormonal disorders
	CO.4 Know for metabolic disorders through hormone
	CO.5 Know for reproductive disorders through hormone
Paper-IV (ZOO204RB) Reproductive	CO.1 Understand knowledge about reproduction system
	CO.2 Understand about modern techniques of fertilization
	CO.3 Understand about sexually transmitted diseases, family planning

Biology	CO.4 Know about the medical research
	CO.5 Use of technology for various sexual disorders
Paper-IV (ZOO20ge) Genetic	CO.1 Understand basic principles of Mendelian inheritance and explore the multi-factorial inheritance.
	CO.2 Learn the linkage concepts, sex determination and sex linked inheritance.
	CO.3 Gain knowledge about the organeller inheritance.
	CO.4 Gain knowledge about the Chromosomal disorders
	CO.5 Understand the role of various mechanism for improvement genetics
Skill Development Paper-V (ZOO205) Vermiculture	CO.1 Understand conceptual knowledge of Vermitechnology
	CO.2 Understand practical knowledge of Vermitechnology
	CO.3 Know about how to use Vermitechnology for self employment. Know about farming in rural areas
Interdisciplinary Course Paper-VI (ZOO206) Ornamental Fishery & Aquarium	(Not for Zoology Students) CO.1 Develop skill for aquarium management as a self employment
	CO.2 Know about ornamental fishery
	CO.3 Get self employment jobs on the ornamental fishery
	CO.4 Understand methods of fish marketing
	CO.5 Aquarium fish and fishery health education
Practical (ZOO207)	Understand anatomy of internal ear of Scoliodon and nervous system of catfish through models. Gain practical knowledge of slide preparation of Amphioxus oral hood and velum also test and spicules. Know about taxonomy and identifying features of the animals of different classes, physiological experiments, embryonic development experiment.

Semester-III

Paper-I (ZOO301) Biotechnology	CO.1 Understand about biotechnology and application
	CO.2 Know about of Red, Blue, Green and White biotechnology
	CO.3 Get opportunities in biotechnological and pharmaceutical companies
	CO.4 Get research opportunities in the laboratories of national and international institute
	CO.5 Understand applications of DNA technologies and scope of bioinformatics
Paper-II (ZOO302) Molecular Biology	CO.1 Know about advances of molecular biology
	CO.2 Understand about structure and functions of DNA and RNA
	CO.3 Understand about study of Genetic Engineering and its application for society
	CO.4 Gain insight into the most significant molecular and cell-based of molecular biology.
	CO.5 Understand the regulation of protein synthesis.

Paper-III (ZOO303) Biodiversity, Natural Resources and Conservations	CO.1 Understand about biodiversity and their factors
	CO.2 Understand about community and habitat ecology and biodiversity measurement
	CO.3 Understand about wetland and mangrove communities
	CO.4 Understand about natural resources and their conservation
	CO.5 Understand about various acts, laws regarding biodiversity and conservation
Elective Paper Paper-IV (ZOO304EB) Environmental Biology -1 (Basics of Environmental Biology, Tools & Chemistry)	CO.1 Understand fundamentals of ecosystems
	CO.2 Understand about ecological concepts and models
	CO.3 Understand about and ecosystem structure and functions
	CO.4 Know about various instruments and their techniques for the environmental study
	CO.5 Know about environmental chemistry and toxicology for science and society.
Paper-IV (ZOO304FS) Fishery Science-I (Taxonomy, Morphology and Physiology)	CO.1 Learn about origin and evolution of fish fauna
	CO.2 Know about morphology and anatomy of the fish
	CO.3 Know about fish biology physiology
	CO.4 Know about fish physiology
	CO.5 Understand knowledge of fish physiology for obtaining jobs in fishery sector
Paper-IV (ZOO304CB) Cell Biology –I (Cell morphology and organelles)	CO.1 Understand about cell structure and its functions
	CO.3 Know about architecture and functions of the plasma membrane
	CO.3 Know about bacteria, virus and cytoskeleton
	CO.4 Know about mitochondria, ribosome and endoplasmic reticulum
	CO.5 Understand about mitochondrial born disease
Skill Development Paper-V (ZOO305) Bio informatics	CO.1 Gain knowledge about bio-informatics
	CO.2 Know about data base study of nucleic acid sequence
	CO.3 Know about scientific role of bioinformatics in research
Interdisciplinary course Paper-VI (ZOO306) Apiculture	(Not for Zoology Students) CO.1 Understand the basic life cycle of the honeybee
	CO.2 Learn about beekeeping tools and equipment
	CO.3. Know about Honey bee modern methods and bee control measures
	CO.4 Learn about modern methods of apiculture for honey production
	CO.5 Know about diseases of honey bee and enemies

Semester-IV

Paper-I (ZOO401) Biochemistry	CO.1 Know about different bio-molecules and biochemical processes of cells
	CO.2 Know about various enzymatic actions in the metabolism

	CO.3 Know about the concepts of mechanisms of enzymatic activities
	CO.4 Know about the concepts of regulation of enzyme activity
	CO.5 Know about the concepts of metabolic pathways
Paper-II & III (ZOO402+ZOO403) Dissertation+ Viva – Voce	CO.1 Know about dissertation research
	CO.2 Know about writing of introduction, review of literature and methodology
	CO.3 Know about data computation, data analysis, data presentation
	CO.4 Know about data interpretation, discussion and reference writing methods
	CO.5 Open house power point presentation of research work
Elective Course Paper-IV (ZOO404EB) Environmental Biology-II (Application, management & Legal Environmental Biology)	CO.1 Know about ecosystem services and applications
	CO.2 Know as aquatic biodiversity for hydroelectric study
	CO.3 Work as consultant for environmental study.
	CO.4 Get job offers as a environmental executive for EIA and EMP
	CO.5 Knowledge about the various software use in the environmental studies
Paper-IV (ZOO404FS) Fishery Science–II (Capture Fishery)	CO.1 Know about knowledge of fish water resources in India
	CO.2 Know about restoration and management of fish stock
	CO.3 Know about riverine fishery and cold water fishery
	CO.4 Know about estuarine fishery and marine fishery
	CO.5 Generate jobs in freshwater and marine fishery field
Paper-IV (ZOO404CB) Cell Biology–II (Karyology, Cell division and Ageing)	CO.1 Understand about the nucleus and their functions in animal cells
	CO.2 Identify the stages of the cell cycle, by description of major milestones
	CO.3 Identify the stages of mitosis & meiosis to explain nuclear division
	CO.4 Understand mechanism of cell aging and cell death
	CO.5 Understand functions and type of chromosomes
Skill Development Paper-V (Zoo405) Sericulture	CO.1 Know about life cycle of silk moth
	CO.2 Understand the knowledge and techniques about silk culture at large scale
	CO.3 Get job and self employment via silk culture in India and abroad.
Interdisciplinary course	(Not for Zoology students) CO.1 Understand about Indian rivers and its ecology

Paper-VI (Zoo406) River System	CO.2 Understand about spiritual and socio-economical use of rivers
	CO.3 Know about the cultural, social, economic and scientific Indian rivers
	CO.4 Understand the heavy metals and impacts in the Ganga river
	CO.5 Understand the role of river system for society

B.Sc. [Chemistry]	
Programme Outcome (POs)	
PO1	Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
PO2	Solve the problem and also think methodically, independently and draw a logical conclusion.
PO3	Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
PO4	Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
PO5	Find out the green route for chemical reaction for sustainable development.
PO6	To inculcate the scientific temperament in the students and outside the scientific community.
PO7	The students would be ready for employment in Chemistry related areas in government, private sectors (like in the field food safety, health inspection, education, etc)
Programme Specific Outcome (PSOs)	
PSO1	To impart knowledge on inorganic chemistry – Atomic structure, chemical bonding, chemistry of s, p, d-blocks and zero group elements, metal and metallurgy, inorganic polymers, bioinorganic compounds, principles of volumetric and gravimetric.
PSO2	The course is so designed that the students understand the central role of chemistry in our society. and become potent enough to explore new areas of research both in chemistry and in allied fields of research and technology.
PSO3	To impart understanding on Gaseous states, thermodynamics, chemical kinetics, electrochemistry, nuclear chemistry, chemical equilibria and phase equilibria.
PSO4	To educate students about the chemistry and application of useful organic compounds - alkanes, alkenes, alcohols, aldehydes, ketones, carboxylic acids. Also, to develop understanding about stereochemistry and spectroscopy, organic reaction mechanism and heterocyclic compounds.
PSO5	To provide the laboratory experience to the students by performing lab experiments based on - qualitative and quantitative analysis, surface tension, viscosity, chromatographic techniques of separation, synthesis of organic compounds, molecular weight determination, chemical kinetics.
PSO5	Understand good laboratory practices and safety.

Course Outcomes:	**Semester I** Upon successful completion students will be able to:
Paper 01 (Inorganic Chemistry)	CO01: Understand the evolution of atomic structures. CO02: Understand different types of chemical bonding CO03: Acquire knowledge on electrode potential and its applications CO04: Understand general principles of extraction and purification of metals. CO05: Understand the Principles involved in Qualitative and Volumetric analysis
Paper 02 (Organic Chemistry)	CO01: Gain knowledge on Hybridization, Hyperconjugation, and Inductive effects. CO02: Understand the mechanism of organic reactions CO03: Understand Stereochemistry of organic compounds CO04: Know about preparation and properties of alkanes and cycloalkanes CO05: Gain knowledge on aromaticity and arenes.
Paper 03 Physical Chemistry	CO01: Understand the theory of gases CO02: Understands the terminology in thermodynamics and first law of thermodynamics. CO03: understand the thermochemistry CO04: understand the kinetics of chemical reactions. CO05: Acquire knowledge about basics of electrochemistry
	Semester II Upon successful completion students will be able to:
Paper 01 (Inorganic Chemistry)	CO01: Understand the periodic table and atomic properties. CO02: Acquire knowledge on Coordination compounds CO03: Understand the chemistry of zero group and S- block elements. CO04: Acquire knowledge about structure, preparation and uses of heavy water, hydrogen peroxides and compounds of beryllium, lithium. CO05: Understand the principle involved in volumetric analysis.
Paper 02 Organic Chemistry	CO01: understand the fundamentals of Optical isomerism. CO02: Acquire knowledge of geometrical isomerism. CO03: Gain knowledge on chemistry of alkenes. CO04: Preparations and chemical properties of alkynes. CO05: Understand the reaction mechanism of alkyl halides and aryl halides.
Paper 03 Physical Chemistry	CO01: Understand the equation of state and critical phenomenon CO02: Understand Joule-Thomson effect, and relation between thermodynamic quantities. CO03: Understand and solve the problems based on thermochemistry. CO04: Acquire knowledge Kinetics of complex reactions and collision theory CO05: Understand Debye -Huckel theory and applications of conductance measurement.
	Semester III Upon successful completion students will be able to understand:
Paper 01	CO01: Shapes of molecules and Sidgwick- Powell theory

(Inorganic Chemistry)	CO02: Characteristics of p-block elements and application of redox potential diagram CO03: Chemistry of Peroxo , Oxyacids of P block elements , interholgens and pseudo halogens. CO04: Extraction and isolation of the following elements B, Ge, F, Cr, Ni. CO05: Principles of gravimetric analysis
Paper02 Organic Chemistry	CO01: The Basics of UV absorption spectroscopy CO02: About the Chemistry of Monohydric alcohols CO03: Preparations and reactions of Dihydric and trihydric alcohols CO04: Mechanism of named reaction of phenols. CO05: Chemistry of ethers and epoxides.
Paper 03 Physical Chemistry	CO01: The Second Law of thermodynamics CO02: Basics of Chemical Equilibrium CO03: Phase Equilibria and Nernst distribution law CO04: Fundamentals of reversible electrodes and computation of EMF of cell CO05: Preparations, stability, determination of size of colloids and Zeta potential), and Donnam membrane theory
	Semester IV At the end of course, the students will be able to
Paper 01 (Inorganic chemistry)	CO01: Understand VSEPR; MO theories and shape of molecules. CO02: Know about general characteristics of d-block elements CO03: Understand the Isomerism and stereochemistry of coordination compounds CO04: Understand Preparation, Properties and uses Boric acid, Borides CO05: Understand Structure and bonding of inorganic compounds
Paper02 Organic Chemistry	CO01: Acquire knowledge on fundamentals of Infrared (IR) absorption spectroscopy CO02: Understand the chemistry of aldehydes and ketones. CO03: To know about the Preparation and reactions of carboxylic acids, halo acids and hydroxyl acids. CO04: Gain knowledge about chemical reactions of carboxylic acid derivatives. Mechanisms of esterification and hydrolysis. CO05: understand organic compounds of nitrogen.
Paper 03 Physical chemistry	CO01: understand the Concept of entropy CO02: Understand thermodynamic derivation of law of mass action, Clausius Clapeyron equation and Clapeyron equation and its applications CO03: Understand Phase equilibrium of two component system, and Nernst distribution and its applications CO04: Understanding Reversible electrodes, reversible cells, and Corrosion. Application of E.M.F. measurements. CO05: Theories of surface phenomenon.
	Semester V At the end of course, the students will be able to
Paper 01 (Inorganic	CO01: Understand theories of Covalent bond - Heitler-London, Pauling Slater, LCAO -MO theory.

Chemistry)	CO02: Understand Metals and Metallurgy of d- block elements. CO03: Understand chemistry of f-block elements CO04: Acquire knowledge of Environmental Pollution CO05: Gain understanding about Bioinorganic chemistry.
Paper02 (Organic Chemistry)	CO01: Acquire skill of NMR and PMR spectroscopy. CO02: Understand the formation, chemical reactions of Organozinc and organomagnesium compounds CO03: Understand Heterocyclic compounds CO04: Know about the Organic synthesis via Enolates. CO05: Understand the chemistry of Monosaccharides, Disachharides and Polysacharrides.
Paper 03 Physical Chemistry	CO01: Understand thermodynamics work functions CO02: Understand the Lindemann's theory, and Transition state theory of reaction rates. CO03: Understand Laws of Photochemical reactions. CO04: Acquire knowledge on Concentration cells in Electrochemistry. CO05: understand the nuclear chemistry
	Semester VI At the end of course, the students will be able to
Paper 01 (Inorganic Chemistry)	CO01: Understand Valence bond theory, crystal field theory, and Ligand field splitting theory. CO02: Understand Metallurgical extraction of Ti, Mo, W and Re. CO03: gain knowledge on inorganic polymers. CO04: Understand Structures and Characteristics of Solids CO05: Understand Bioinorganic Chemistry
Paper02 (Organic Chemistry)	CO01: Understand the applied aspects of UV, IR, and PMR spectroscopy CO02: Introduction to condensed five and six – membered heterocycles. CO03: Understand about the Amino acids, Peptides and Proteins CO04: Understand Components of nucleic acids, & Structure of polynucleotides CO05: Aware about Synthetic polymers
Paper 03 (Physical Chemistry)	CO01: Acquire knowledge about the third law of thermodynamics, and residual entropy. CO02: Understand the Kinetics of homogeneous, acid-base and enzyme catalysis CO03: Understand Rice-Herzfeld mechanism, Photo electric cell, Photosensitization CO04: Gain understanding about development of atomic model. CO05: Gain knowledge on fission and fusion in nuclear chemistry.

M.Sc.[Chemistry]	
Programme Outcome (POs)	
PO1	Demonstrate, solve and an understanding of major concepts in all disciplines of Chemistry.

PO2	Solve the problem and also think methodically, independently and draw a logical conclusion.
PO3	Create an awareness of the impact of chemistry on the society, and development outside the scientific community.
PO4	Become professionally trained in the area of Industry, material science, lasers and Nano-Technology.
PO5	Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of Chemistry experiments.
PO6	To inculcate the scientific temperament in the students and outside the scientific community.
PO7	Apply modern methods of analysis to chemical systems in a laboratory setting.
PO8	Determine molecular structure by using UV, IR and NMR.
PO9	Study of medicinal chemistry for leading compound.
PO10	Improve the Skill of student in organic research area.
PO11	Synthesis of Natural products and drugs by using proper mechanisms.
PO12	Study of Asymmetric synthesis.
PO13	Determine the aromaticity of different compounds.
PO14	Solve the reaction mechanisms and assign the final product.
Programme Specific Outcome (PSOs)	
PSO1	Know the structure and bonding in molecules/ ions and predict the Structure of molecule/ions.
PSO2	Understand the various type of aliphatic, aromatic, nucleophilic substitution reaction.
PSO3	Understand and apply principles of Organic Chemistry for understanding the scientific phenomenon in Reaction mechanisms.
PSO4	Learn the Familiar name reactions and their reaction mechanisms.
PSO5	Understand good laboratory practices and safety.
PSO6	Study of organometallic reactions.
PSO7	Study of free radical,bycyclic compound, conjugate addition of Enolates and pericyclic reactions.
PSO8	Study of biological mechanisms using amino acids.
PSO9	Learn about the potential uses of analytical industrial chemistry.
PSO10	Carry out experiments in the area of organic analysis, estimation, separation, derivation process, conduct metric and potentiometric analysis.
PSO11	Learn the classical status of thermodynamics.
PSO12	Gathers attention about the physical aspects of atomic structure, various energy transformation, molecular assembly in nanolevel and significance of electrochemistry.
PSO13	Understand good laboratory practices and safety.
PSO14	Introduce advanced techniques and ideas required in developing area of Chemistry.
PSO15	Make aware and handle the sophisticated instruments/equipments.
PSO16	The aim of this course is to provide conceptual understanding, development of experimental skills, designing and implementation of novel synthetic methods, developing the aptitude for academic and professional skills, acquiring the basic concepts for structural elucidation with hyphenated techniques, understanding the fundamental chemical and biological processes and rationale towards computer.

PSO17	The project/Dissertation introduced in the curriculum will motivate the students to pursue the research and find a job in reputed pharmaceutical and other industries in India and abroad.

Course Outcome
Semester-I

Students are expected to understand:

Inorganic Chemistry I (CHE-101)	CO01: Bohr‘s theory, de Broglie equation, Heisenberg‘s Uncertainty Principle, Schrödinger‘s wave equation CO02: concept of MO and VB theory. Concept of resonance, molecular dipole moment, polarizing power and polarizability, Fajan‘s rules CO03: Inorganic Spectroscopy, Microstates and term symbols CO04: Principles of Electronic Spectroscopy-Franck-Condon principle CO05: Introduction to transition metal complexes
Organic Chemistry I (CHE-102)	CO01: Principles of stereochemistry CO02: Aromaticity- Benzenoid and non-benzenoid compounds CO03 Organic reactive intermediates CO04: Aliphatic Nueleophilic Substitution CO05: Aliphatic Electrophilic Substitution
Physical Chemistry I (CHE-103)	CO01: Brief resume of concepts of laws of thermodynamics CO02: Mathematical chemistry -Probability, Matrices, Determinants, Series, Stirling approximation CO03 Concept of operators in quantum mechanics CO04: Surface active agents CO05: Laplace law, Kelvin equation
Solvent Extraction and Chromatography (CHE-104)	CO01: Principles and applications of solvent extraction CO02: Ion exchange Resins CO03 Ion Chromatography and applications CO04: Partition Chromatography and its applied aspects CO05: Principles of Electrophoresis
Introduction to Analytical Chemistry I (CHE-105)	CO01: Methods of qualitative and quantitative analysis. CO02: Types and applications of thermogravimetry. CO03 Electro Analytical Techniques CO04: Diffraction Techniques CO05: Electrochemical Techniques
Computer Application in Chemistry (CHE-106)	CO01: FORTRAN Programming CO02: Various types of I/O‘statements CO03 Roots of Polynomials CO04: Computer programming based on FORTRAN CO05: Chemdraw, generation of graphs,
Skill Development Data generation and interpretation Lab (CHE-107)	CO01: Methods of qualitative and Quantitative analysis. CO02: Interpretation and statistical analysis of experimental data CO03: Identification techniques for separation of laboratory materials. CO04: Instruments caliberation techniques. CO05: Report writing based on Data Analysis and Interpretation.
Polymer Chemistry	CO01: Classification of polymers CO02: Structure, Separation and Properties of Polyethylene, PVC

(CHE-108)	CO03 Polymer solutions CO04: Biomedical and Engineering Application CO05: Bio polymers DNA, RNA

Semester-II

Students are expected to understand:

Inorganic Chemistry II (CHE-201)	CO01: Theories of the coordinate linkage CO02: Electronic absorption spectra of transition metal complexes CO03: Metal Carbonyls and Nitrosyls CO04: Chemistry of f-Block Elements CO05: General chemistry of actinides including E.M.F. diagrams
Organic Chemistry II (CHE-202)	CO01: Aromatic Electrophilic Substitution CO02: Aromatic Nucleophilic Substitution CO03: Free Radical Reactions CO04: Addition to Carbon-Hetero Multiple Bonds CO05: Elimination Reactions
Physical Chemistry II (CHE-203)	CO01: Quantum states and complexions CO02: Indistinguishability of gas molecules. CO03: The Einstein model, and Debye's theory CO04: Partition functions CO05: Bose- Einstein statistics, and Fermi-Dirac Statistics
Forensic Analysis (CHE-204)	CO01: Forensic laboratory – role and operations CO02: Real Case Analysis – liquor, petroleum and firearm analysis. CO03: Forensic Toxicology CO04: Instrumentation for Forensic Analysis CO05: Instrumental Methods and SOPs
Catalysis and Green Chemistry (CHE-205)	CO01: Basic Principles of Green Chemistry CO02: Green Reagent CO03: Introduction and Basic concept of green catalysis CO04: Green Catalyst CO05: Aqueous Phase Reactions
Introduction to Analytical Chemistry II (CHE-206)	CO01: Errors analysis CO02: Use of Tests of significance – t, f , and q CO03: Titrimetric analysis CO04: Spectrophotometric methods CO05: Separation Techniques
Skill Development Paper Analysis and determination Lab (CHE-207)	CO01: Analysis of dairy products and petrochemicals. CO02: Determination of physico-chemical parameters of waters/ given sample CO03: Food analysis CO04: Methods of removal of hazardous waste from the water. CO05: Methods of removal of hazardous metals from the water.
Organic Chemistry (Applied Aspects Only) (CHE-208)	CO01: Organic chemistry and industry CO02: Brief introduction of the molecules CO03: Overview of antiviral drugs CO04: Bio-polymers CO05: Synthetic polymers

Semester-III (Specialization Papers)

Students are expected to understand:

Inorganic Chemistry Paper-I Bioinorganic Chemistry -S- l (CHE-301l)	CO01: Complexes of Biological Significance CO02: Synthetic model oxygen carrier complexes CO03 Role of Metal Ions in Biological Systems CO04: MetalloProteins and MetalloEnzymes CO05: Electron Transport Proteins
Inorganic Chemistry Paper-II Organometallic Chemistry of Transition Metals-S- ll (CHE-302I)	CO01: Inorganic π Acid Ligands CO02: π complexes of unsaturated molecules CO03 Transition organometallic compounds CO04: Transition metal compounds in catalysis CO05: Transition metal Compounds with M-H bonds
Inorganic Chemistry Paper-lll Techniques in Inorganic Chemistry-S- lll (CHE-303l)	CO01: Electron Microscopy- SEM and TEM CO02: Electron Microscope AFM and STM CO03 Photochemistry of Transition Metal complexes CO04: Electrochemical Methods: Cyclic voltammetry. CO05: Differential pulse voltammetry
Organic Chemistry Paper-I Bioorganic and Medicinal Chemistry-S-1 (CHE-301O)	CO01: Enzymes CO02: Mechanism of Enzyme Action CO03 Chemical structure and biological activities and theories of drug action CO04: Local Anti-infective Drugs, Psychoactive Drugs CO05: Vitamins and Hormones
Organic Chemistry Paper II Organic Reactions Mechanisms-S-II (CHE-302O)	CO01: Migration to electron deficient carbon atom CO02: Migration to electron deficient nitrogen atom CO03 Different oxidative processes CO04: Different reductive processes. CO05: Organometallic Reagents
Organic Chemistry Paper III Organic Photochemistry and Pericyclic Reactions- S-III (CHE-303O)	CO01: Photochemistry of Carbonyl Compounds CO02: Photochemistry of unsaturated system CO03 Photochemistry of aromatic compounds CO04: Pericyclic Reactions CO05: Sigmatropic rearrangements
Physical Chemistry Paper –I Molecular Spectroscopy - S-I(CHE-301P)	CO01: Basic concepts, classification of molecular spectra CO02: Vibration Rotation Spectra CO03 Electronic spectroscopy CO04: NMR spectroscopy CO05: ESR- Principle
Physical Chemistry Paper –II	CO01: Ionic, Molar conductance CO02: Non-ideal systems CO03 Debye-Huckel theory of activity coefficients

Electrochemistry -S-II (CHE-302P)	CO04: Bioelectrochemistry- Bioelectrodics CO05: Fuel cell technology
Physical Chemistry Paper –III Quantum Chemistry -S-III (CHE-303P)	CO01: Review of classical mechanics CO02: Concept of operators in quantum mechanics CO03 Quantum mechanical approaches to molecular Bonding CO04: LCAO-MO treatment of hydrogen molecule ion CO05: Huckel molecular orbital theory and its application
Skill Development Paper Hand Made Soap/Detergent Making (CHE-307)	CO01: Types of cleaning agents CO02: Properties of cleaning agents CO03 Technical skill of soap/detergent making CO04: Marketing of soap and allied products CO05: Precautions major for preparation of detergent and soap.
Environmental Chemistry (CHE-308)	CO01: Introduction to Environmental Chemistry CO02: Natural cycles of environment CO03: Chemical Toxicology CO04: Air Pollution CO05: Water pollution.

Semester-IV

Students are expected to understand:

Inorganic Chemistry Paper IV Spectral Techniques in Inorganic Chemistry-S-IV (CHE-401I)	CO01: NMR Spectroscopy CO02: Nuclear Spectroscopy CO03: Electron Spin Resonance Spectroscopy CO04: Infrared and Raman Spectroscopy: CO05: Mass Spectrometry
Inorganic Chemistry Paper V Group theory and Molecular Spectroscopy-S-V (CHE-402I)	CO01: Group Theory CO02: Rotational, Vibrational and Electronic spectroscopy CO03: Classical and quantum theory of Raman effect CO04: Introduction to NMR CO05: EPR, NQR and Mossbauer spectroscopic techniques
Inorganic Chemistry Paper Vl Scope of Chemical Biology-S-VI (CHE-403I)	CO01: Role of Metal Ions in Biological Systems CO02: Complexes of Biological Significance: CO03: Metalloproteins CO04: Metallo enzymes CO05: Copper containing Enzymes
Organic Chemistry Paper-IV Concepts in Organic	CO01: Disconnection Approach CO02: Synthetic Strategies CO03: Stereochemistry in organic synthesis: CO04: Reagents in Organic Synthesis CO05: Selective organic name reaction and their synthetic applications

Synthesis- S-IV (CHE-401O)	
Organic Chemistry Paper V Spectroscopic Identification of Organic Compounds S-V (CHE-402O)	CO01: Introduction to spectroscopic techniques CO02: Nuclear Magnetic Resonance Spectroscopy CO03: Carbon-13 NMR Spectroscopy/2-D Spectroscopy CO04: Introduction to mass spectrometry CO05: Solution of Structural problems by joint application of UV, IR, and NMR
Organic Chemistry (Biosynthesis and Chemistry of Natural Products) S-VI (CHE-403O)	CO01: Bio-synthesis of Natural Products CO02: Terpenoids and Carotenoids CO03: Alkaloids CO04: Steroids CO05: Prostaglandins - Plant Pigments
Physical Chemistry Paper –I Spectroscopy and Modern Techniques -S-IV (CHE-401P)	CO01: Photoelectron Spectroscopy and Related Techniques CO02: Techniques for Studying Surface Structure CO03: LASER and MASER, NQR spectroscopy CO04: Fluorescence techniques CO05: Scanning tunnelling and atomic force microscopy (STM and AFM).
Physical Chemistry Paper –II Energetics -S-V (CHE-402P)	CO01: Thermodynamic functions for non-equilibrium states CO02: Transformations of the generalized fluxes and forces CO03: Nernst heat theorem and its application to non- condensed systems CO04: Ideal and non-ideal solutions CO05: Gibbs-Duhem-Margules equation and its applications
Physical Chemistry Paper –III Chemical Dynamics -S-VI (CHE-403P)	CO01: Kinetics of fast reactions CO02: Heterogeneous catalysis, CO03: Comparison of homogeneous and heterogenous reactions CO04: Kinetic of initiation retardation CO05: Coordination polymerization
Skill Development Paper Industry visit/Field work (CHE-407)	CO01: Industrial visit. CO02: Data collection from the field area. CO03: Use of technology for data collection and analysis by software and instruments. CO04: Data analysis. CO05: Data presentation in the form of report.
Nanochemistry (CHE-408)	CO01: History scope and perspectives of nanochemistry CO02: Experimental Techniques: CO03: Size Effects in Nanochemistry CO04: Applications of Nanoparticle in various fundamental research CO05: Environmental issue

B.Sc. [Physics]	
Programme Outcome (POs)	
PO1	**Knowledge:** Acquire the knowledge with facts and figures related to Physics understand the basic concepts, fundamental principles and scientific theories related to various scientific phenomena and their relevance in day to-day life.
PO2	**Skills:** Acquire the skills in handling scientific instruments & skills of observation and drawing logical inference from scientific experiments.
PO3	**Modern Tool Usage:** Apply appropriate techniques, skills, modern tools and IT tools to practice.
PO4	**Creativity & Analysis:** Think creatively to propose novel ideas in explaining the evidence of data and provide new solutions to the problems and analyse the given scientific data systematically and have the ability to draw conclusion.
PO5	**Communication:** Communicate effectively on problems, issues and Solutions with community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO6	**Ethics & Environment:** Apply ethical principles and commit to professional ethics and responsibilities and norms in research and the functional areas, understand the issues of environmental context and sustainable development.
PO7	**Individual and Team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO8	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio, economic and technological changes.
Programme Specific Outcome (PSOs)	
PSO1	Understand and apply the principles of Classical mechanics, Quantum mechanics, Thermodynamics, Nuclear physics and Electrodynamics which strengthen the historical development of Physics, concepts of basic physics laws and limits of their applicability.
PSO2	Understand and apply the principles of Solid state Physics, Optics, Photonics and Spectroscopy and apply in investigations of facts, diagnostics of diseases, detection of impurities and hazardous materials, preparation of microscope and telescopes for different purposes.
PSO3	Understand the principles of Electronics, Design and test electronic circuits which can be applied to prepare new machines to do the well-defined work in different Institutions and Industries.
PSO4	Understand and apply the principles of Mathematical Physics, Computational Physics and Error analysis in measurements to solve the challenging problems of complex theories of Physics and help to understand the nature of Universe.

Course Outcome- B.Sc. [Physics]

Semester-I

After completion of the Course, the student:

Paper-I Mechanics	**CO1:** will be aware of the background and concept of Vector Calculus which includes the concept of physical quantities like scalar and vectors, their differentiation and integration, line, Surface, Volume and their physical significance, vector operator and its application. **CO2:** will understand Frame of reference and Inertial and non-inertial frames, Galilean transformations, invariance, Principle of Equivalence, Michelson and Morley's Experiments and Postulates of Special Relativity which explains the concept of relative motions and their effect in different physical parameters. **CO3:** will be aware of the concepts related to Relativistic dynamics and Mechanicsof Rigid Bodies. **CO4:** will understand the concept related to motion under a central force and will be able to solve Two-Particle Central Force Problem. **CO5:** aware of the concept of Motion in an Inverse Square Field, Kepler's Laws and gravitation related concept.
Paper-II Thermal Physics	**CO1:** will be aware of the basic concept of Thermodynamic systems, State, Zeroth law of thermodynamics and concept of Temperature, Heat and Work, their path dependence, Thermal Processes, Kinematic theory of gases. **CO2:** will be aware of concept and application of First Law, Second Law of Thermodynamics and Entropy. Explains the concept of greenhouse effect, Black body radiations and related concepts. **CO3:** will give the Thermodynamic relations and their applications. **CO4:** will be aware to success in their chosen careers by emphasizing critical thinking and scientific reasoning through an inquiry-based curriculum. **CO5:** will be aware to understand and appreciation of the physical principles and laws governing the universe.
Paper-III Electrical Circuits	**CO1:** will be aware of basic elements of Electrical Circuits, basic rules for preparing and analysing the electrical circuits, major laws and concepts andapplication. **CO2:** Will be acquainted with inductive circuit. **CO3:** will be aware with Galvanometer and its application. **CO4:** will be aware with A.C. Analysis, resonance and coil.**CO5:** will be aware to A.C. bridges and their applications.
Paper-IV Practical	**CO1:** will acquire an ability to explain and apply the concepts used in Experiments of Mechanics, perform the experiments, calculate the values with humanand experimental errors and realise the concept of physics, General Properties of Matter of the Course practically.

Semester-II

After completion of the Course, the student:

Paper-I Elasticity andFluid Mechanics	**CO1:** will understand and able to apply the concept related to Mechanics of Non-Rigid bodies. **CO2:** will understand and able to apply the concept related to bending of beams. **CO3:** will understand and able to apply the concept related to Streamline flow. **CO4:** will understand and able to apply the concept related to Mechanics ofEquations of Motion, Bernoulli's theorem and viscous fluids. **CO5:** will understand and able to apply the concept related to Poiseuillie'sEquation.
Paper-II Conduction and Radiationof Heat	**CO1:** will understand and able to apply the concept of Kinetic Theory of Gases,and Transport phenomenon. **CO2:** will understand and able to apply the concept of Conduction of Heat &Fourier. **CO3:** will understand and able to apply the concept of Kirchhoff's Law, StefanBoltzmann law and Emission and absorption of Heat. **CO4:** will understand and able to apply the concept of Solar constant andradiation. **CO5:** will understand and able to apply the concept of Radiation Spectrum, blackbody radiation and Planck's law.
Paper-III Basic Semiconductor Electronics	**CO1:** Will be aware of basic Semiconductor Electronics, concept of Conduction in Solids, NPN and PNP Transistors and their Characteristics and their applications inday to day life. **CO2:** Will be aware of P.N. Junctions, Zener Diode, Photo-diode and Solar Cell. **CO3:** Will be aware of Transistor, Hybrid parameter. **CO4:** Will understand the concept of Oscillators. **CO5:** Will understand the concept of Modulation and CRO.
Paper-IV Practical	**CO1:** will acquire an ability to explain and apply the concepts used in Experimentsrelated to Thermal physics, Electricity & Electronics of the Course practically. Will perform the experiments, calculate the values with human and experimental errors and realise the concept of physics.

Semester-III

After completion of the Course, the student:

Paper-I Optics-I	**CO1:** will be aware of the basic concepts of Geometrical Optics. **CO2:** will be aware of the basic concepts of EM Waves. **CO3:** will be aware of the basic concepts of Interference and Michelsoninterferometer. **CO4:** will be aware of the basic concepts of Newton's rings and Etalon. **CO5:** will be aware of the basic concepts of Laser and its application.

Paper-II Waves and Oscillations	**CO1:** Will understand and will be able to solve the problems related to Oscillations, SHM, Fourier Series, Ultrasonics generation, detection and measurement. Concept of time period, frequency, oscillations like damped, un- damped, forced and maintained oscillations, resonance and related phenomena. **CO2:** Will understand and will be able to solve the problems related to Fourier Series**.** **CO3:** Will understand and will be able to understand about Ultrasonic and its application. **CO4:** Will be aware with wave motion and equation. **CO5:** will be aware of Propagation of plane wave and modes of natural oscillations.
Paper-III Atomic Physics	**CO1:** Will be aware of Basic Concepts of Spectrum and spectrum of H- atom, frank- Hertzex experiment.
	CO2: Will be aware of Basic Concepts of X-rays and Bragg's Law. **CO3:** Will be aware of Basic Concepts of basic atomic phyics and Pauli'sexclusion principle. **CO4:** Will be aware of Basic Concepts of Magnetic properties of Materials. **CO5:** Will be aware of Basic Concepts of Quantum Concepts.
Paper-IV Practical	**CO1:** will acquire an ability to explain and apply the concepts of Electricity in the Experiments practically. Perform the experiments, calculate the values with humanand experimental errors and realise the concept of physics.

Semester-IV

After completion of the Course, the student:

Paper-I Optics-II	**CO1:** Will understand and able to apply the Fresnel's Theory of Diffraction. **CO2:** Will understand and able to Fraunhofer's diffraction by single and doubleslit. **CO3:** Will understand and able to Grating and telescope. **CO4:** Will understand and able to Polarization. **CO5:** will aware with Analysis of polarized light.
Paper-II Electroma-gnetism	**CO1:** Will understand Electrostatics in Free Space. **CO2:** Will understand Dielectric materials and related laws. **CO3:** Will understand Electric Current. **CO4:** Will understand generation of magnet using electricity, Magneto-staticsConcepts and various calculations related to them. **CO5:** Will understand generation of electricity from varying magnetic field.

Paper-III Nuclear Physics	**CO1:** Will be aware of Natural Radioactivity and laws of radioactive disintegration and radioactive series, concept of nucleus, internal structure of nucleus, its constituent particle, stability of nucleus, binding energy of nucleus etc. **CO2:** Will be aware of Counters. **CO3:** Will be aware of Nuclear Reactions and Decay **CO4:** Will be aware of Nuclear models and Magic numbers. **CO5:** Will be aware of Elementary Particles and its classification.
Paper-IV Practical	**CO1:** will acquire an ability to explain and apply the concepts of Optics like Interference, Diffraction, Polarisation etc., in the Experiments practically. Calculate the values of optical parameters with human and experimental errors and realise the concept of optics and radiations.

Semester-V

After completion of the Course, the student:

Paper-I Quantum Mechanics-I	**CO1:** will be aware of the Quantum Theory & Schrodinger's wave Mechanics and Interpretation of the wave function. Method to solve so many problems which can't be resolved by Classical or Newtonian Mechanics. **CO2:** will be acquainted with Operators and measurement in Quantum Mechanics. **CO3:** Will understand the Uncertainty Principle. **CO4:** Will understand Time-Dependent Schrodinger Equation and its application. **CO5:** Will understand Harmonic Oscillators Problem.
Paper-II Statistical Mechanics	**CO1:** will be acquainted with basic concepts of statistical Mechanics and their applications. Concept of Microscopic and Macroscopic systems which explains the different thermodynamic phenomena.
	CO2: Will be aware of ensembles **CO3:** Will be aware of Postulates of quantum statistical mechanics. **CO4:** Will be aware of entropy and Maxwell's velocity distribution. **CO5:** Will be aware of Bose Einstein and Fermi-Dirac Distribution and its applications.
Paper-III Basic Digital Electronics	**CO1:** will be aware of logic families i.e. RTL, DTL and TTL their I/O Characteristics. **CO2:** will be aware of Basic Logic Gates and their representations. **CO3:** will be aware of Boolean Algebra and venn diagrams. **CO4:** will be aware of Karnaugh Mapping. **CO5:** will be aware of combination of Logic Circuits.
Paper-IV(A) Electromagnetic Theory	**CO1:** Will understand concepts of Electrostatics. **CO2:** Will understand concepts of Electromagnetic energy and Maxwell's stress tensor. **CO3:** Will understand concepts of Solutions of Electromagnetic Waves **CO4:** Will understand concepts of Electromagnetic Dispersion **CO5:** Will understand concepts of boundary condition at a

	discontinuity, Fresnel'sFormula, Total Internal reflection, Metallic reflection and skin depth.
Paper-IV(B) Mathematical Methods	**CO1:** Will understand concepts of vector calculus and its application. **CO2:** will be aware of linear algebra and matrices. **CO3:** will be aware of complex variables and complex integrations. **CO4:** will be aware of Statistical physics and Probability. **CO5:** will be aware of Special functions.
Paper-V Practical	**CO1:** will acquire practical skills in performing the Experiments onOptics.Calculate the values of optical parameters with human and experimental errors and realise the concept of waves and optics.

Semester-VI

After completion of the Course, the student:

Paper-I Quantum Mechanics-2	**CO1:** Will be aware of the concept of Angular Momentum, H-atom Problem, Time-Independent Perturbation Theory, Elementary concept of Spin and IdenticalParticles. **CO2:** Will be aware of the H- atom problem. **CO3:** Will be aware of the Time independent perturbation theory. **CO4:** Will be aware of the Spin and total angular momentum. **CO5:** Will be aware of the Identical Particles.
Paper-II Solid State Physics	**CO1:** will be acquainted with basic concept of Solid State Physics. **CO2:** will be acquainted with Reciprocal Lattice and Bragg's law. **CO3:** will be acquainted with Inter-atomic forces and classification of solids. **CO4:** will be acquainted with free electron theory and hall effect. **CO5:** will be acquainted with band theory of solids, effective mass and Kronig-Penny model.
Paper-III Photonic Devices	**CO1:** will be able to review the characteristics of a semiconductor diode and BJT. **CO2:** will be able to review Principle of Operation of FET. **CO3:** will be able to review MOSFET. **CO4:** will be able to review Integrated Circuits (ICs). **CO5:** will be able to review Photonic devices.
Paper-IV (A) **Laser. Holography and Optical Instruments**	**CO1:** will understand the concepts and applications of Laser, Holography and Optical Instruments. **CO2:** will be able to understand laser action conditions. **CO3:** will be able to review and application of Holography. **CO4:** will be able to understand optical instruments like Fabry- Perot interferometer. **CO5:** will be able to understand optical instruments like Lummer-Gehreck plate.
Paper-IV (B) Renewable	**CO1:** will be able to understand about fossil fuels and Alternate

Energy Source, Energy Harvesting and its Application	Sources of energy. **CO2:** will be able to understand about Biomass, biochemical conversion, biogas generation, geothermal energy tidal energy. Wind Energy harvesting: Fundamentals of Wind energy, Wind Turbines. **CO3:** will be able to understand about Solar energy. **CO4:** will be able to understand about Ocean Thermal Energy, WaveCharacteristics and Statistics. **CO5:** will be able to understand about Hydropower resources Hydroelectricity. Carbon captured technologies, cell, batteries, power consumption Environmental issues and Renewable sources of energy, sustainability.
Paper-V Practical	**CO1:** will acquire practical skills in performing the Experiments with Electronic devices.Calculate the values of electrical parameters with human and experimentalerrors and realise the concept of electronic devices.

M.Sc.[Physics]	
Programme Outcome (POs)	
PO1	The Master of Science in Physics programme provides the candidate with knowledge, general competence and analytical skills on an advanced level which will expertise them for higher studies and research. Also this knowledge and skills will be helpful for them in industry, consultancy, and public administration. This course provides in-depth understanding of principles and concept of Physics, proficiency in experimentation to understand the theoretical and experimental dimensions of Physics. The work with the Master Thesis gives special expertise on research in one particular area of Physics

Course Outcome-M.Sc.[Physics]

Course Outcome-M.Sc. [Physics]Semester-I

After completion of the Course, the student:

Paper-I Mathematical Physics	CO1: will understand and able to apply the concept of Complex Analysis and related functions, equations, theorems wherever it is needed in calculations, simulations and explanation of theoretical concepts. CO2: will understand Linear Differential Equations. CO3: will understand Special Functions such as Bessel, Legendre, Hermite andLaguerre differential equations with properties of their solutions CO4: will be aware of very important Integral transforms such as Laplacetransform, Fourier theorem, Fourier transforms. CO5: Will be aware of Dirac delta function and Green's function and applications.

Paper-II Classical Mechanics	CO1: Will be aware of Variational Principles and Langrange's Equations and theirapplications. CO2: will understand concepts of Hamiltonian formalism. CO3: will understand concepts of CanonicalTransformations. CO4: will understand concepts Hamilton–Jacoby Theory. CO5: will understand concepts of Small oscillations and normal modes and their applications.
Paper-III Quantum Mechanics-I	CO1: will be acquainted with Dirac's Bra &Ket Notations, Hilbert Space, Vector Representations of States, Projection Operators, Observables as Operators, Ortho- normality and Completeness of States, Relation between Ketand Wave-functions, Wave-functions in Coordinate and Momentum Representations. CO2: Will understand the concept of Matrix Theory of Harmonic Oscillator, Uncertainty Relations, Schrödinger, Heisenberg and Dirac Representations. CO3: will be aware of Orbital Angular Momentum, Angular Momentum Algebra,and its applications. CO5: will understand the Non Covariant Derivation of Lagrangian Equations for fields and their applications.
Paper-IV (a) Electromagnetic Theory	CO1: will understand the concepts and applications of Guided electromagneticwaves. CO2: will understand Tensor analysis. CO3: will understand Minkowsky space and Lorentz transformations. CO4: will understand the Covariant formulation of electromagnetism. CO5: will understand the EMF of a moving charge with constant velocity.
Paper-IV (b) Programmin gfor Numerical Methods	CO1: will be acquainted with the basics of C++ programming, various data types, types of loops, break and continue statements, switch statement, if else, conditional operator, functions with default arguments, function overloading. The student will be able to simulate the functioning of different machines working in different principles. CO2: will be aware of operators, Arrays, Structures, Pointers, Compound assignment in C++. CO3: will understand and will be able to programme using C++ Basic concept of Object Oriented Programming. It application will give a first-hand training to students for calculations and solving of those equations which are very hard in manual calculations. CO4: will be aware of Newton Raphson method, Iterative method, Integration by Trapezoidal and Simpson rule, Interpolation, Matrix manipulations in C++. CO5: will be aware of C++ for Euler's methods.

Paper-IV (c) Group Theory	CO1: Will be aware of Group theory and its application. CO2: will be aware of the Theory of Representation. CO3: will be aware of the Orthogonality theorem. CO4: will be aware of the Theorem for the possible number ofirreducible. CO5: will be aware of applications to molecular and crystal symmetry.
Practicals-Virtual Laboratory Experiments	CO1: will be able to demonstrate experimentally the Franck-Hertz Experiment, See beck Effect, Photo-Electric Effect, Quincke's Method, Comparator, Fluorescence and pH-Effect
Paper-V Instrumentation	CO1: will be aware of the working of various Instruments such as Multimeter, CO2: will be aware of the Vacuum tube voltmeter, Solid State multimeter, andDigital multimeter. CO3: will be aware of Cathode-ray Oscilloscope. CO4: will be aware of electronic components. CO5: will be aware of Shunt Capacitor etc.
Paper-VI Nanotechnology	CO1: will be aware of the basic concept of Nanotechnology. CO2: will be aware of Synthesis methodologies. CO3: will be aware of the kind of Nanostructures, CO4: will be aware of the physical properties of nanomaterials. CO5: will be aware of the Overview of Characterization of nanomaterials byusingSpectroscopy.

Semester-II

After completion of the Course, the student:

Paper-I Solid State Electronics	CO1: will be acquainted with the working of the P-N Junction Diode., rectificationand bias stabilization. CO2: will be aware of Field-Effect Transistors. CO3: will be aware of Feedback Amplifiers and Oscillators. CO4: will be aware of power and radio Frequency Amplifier. CO5: will be aware of Modulation.

Paper-II Statistical Mechanics	CO1: will be able to review of Gibbs ensembles, Partition function for Perfect Gas and ensemble of Harmonic Oscillators, Partition Function for Gases containing Monoatomic, Diatomic and Polyatomic Molecules, Grand partition function which gives the basic concepts and explains the different thermodynamic phenomenon. CO2: will understand Grand potential, Fermi-Dirac (FD) and Bose-Einstein(BE) distribution in Grand Canonical ensemble, Degenerate Bose Gas, Momentum Condensation, Liquid He II, Two fluid theory, Super-fluidity. CO3: will be aware and able to explain the Degenerate FD Gas, Conduction Electrons in a Metal, Fluctuations, One dimensional Random walk, Gaussian Distribution, Fluctuation in energy in canonical ensemble and concentration in Grand Canonical ensemble. CO4: will be aware of process, Equation, Correlation functions and various theorems related to random processes. CO5: will understand Conditional probability, Fokker Plank Equation and Brownian motion.
Paper-III Quantum Mechanics -II	CO1: will understand Time-Independent Perturbation Theory and Applications, Variational Method, WKB Method, CO2: will understand constant and Harmonic Perturbation, Transition probabilities, Fermi's Golden Rule, Semi- Classical Theory of Radiation, Einstein A and B Coefficients, Selection Rules and Scattering. CO3: will be acquainted with method of Partial Waves, Phase-Shifts, Born Approximation and their Simple Applications. CO4: will be aware and able to understand Klein Gordon Equation and Free Particle, Solution, Dirac Equation, Dirac Matrices, Covariance of Dirac Equation & Bilinear Covariants. CO5: will have knowledge about the Solution for a Free Particle, Negative Energy states and Hole Theory, Spin and Position Operator.
Paper-IV (a) Atomic and Molecular Spectroscopy	CO1: will be aware of concepts related to Atomic Spectroscopy. CO2: will understand the Atomic Spectroscopy width of spectral lines. CO3: will be aware of Microwave Spectroscopy of Diatomic MoleculesRotationalSpectra. CO4: will be aware of infra-red Spectroscopy of Diatomic Molecules, VibrationalSpectra (Harmonic and Anharmonic models). CO5: will be aware of Raman and Electronic Spectroscopy of Diatomic molecules.

Paper-IV (b) Laser Fundamentalsand Applications	CO1: will be acquainted with Properties of Lasers & Einstein Coefficients and Light Amplification Laser Beam Characteristics, Laser Rate Equation & Optical Resonators, Two,Three and Four Level Laser Systems. CO2: will have knowledge about Laser Systems, Application of Laser in Light Wave Communications, Carrier Wave Communication, Analog Modulation, Digital Modulation, Optical Fibers in Communication. CO3: will be aware of Application of Laser in Science &Technology for daily lifeand Industrial use. CO4: will be aware of the Application of Laser in LightWave Communications Carrier Wave Communication, Analog Modulation, Digital Modulation, Optical Fibers in Communication, The Optical Fiber. CO5: will be aware of the Application of Laser in Science & Industry.
Paper-IV (c) Nano-biotechnology	CO1: will be able to understand the concepts of Biological Nano-Objects and theStructural and Functional Regulation of DNA. CO2: will be aware of the methods of Nanobiotechnology and theirapplications. CO3: will be aware of Optical tools, and concepts applied to the lifesciences. CO4: will be aware of real-time PCR-Biosensors And the pharmaceuticalapplication of nanoparticle carriers. CO5: will be aware of major physiologic systems.
Practicals-II Real Laboratory Experiments	CO1: will acquire practical skills in performing experiments and will be aware of use and calculation of Forbidden Energy Band, Boltzmann constant, Capacity and Permittivity, Curie Temperature, Modulation and Demodulations, Energy Band Gap of Si &Ge Diodes , Double Stage Amplifier , Design of CE Amplifier and Design of Regulated Power Supply.
Paper-V MS-Excel	CO1: will be aware of major physiologic systems. CO2: will acquire skills in Graph plotting with the use of MS-Excel. CO3: will acquire skills in the Labelling of X & Y-axes. CO4: will acquire skills in graph plotting for a given equation. CO5: will acquire skills in curve fitting.
Paper-VI Liquid Crystals	CO1: will be aware of Various mesophases of liquid crystals. CO2: will acquire skills Effect of Electric Field on Liquid Crystals. CO3: will acquire skills in the Flexoectric effect. CO4: will acquire skills Freeder ricksz transition statics. CO5: will acquire skills in Liquid Crystal Materials Refractive indices,Dielectric constants, Rotational viscosity, Elastic constants, etc.

Semester-III

After completion of the Course, the student:

Paper-I Condensed MatterPhysics	CO1: will be able to understand the concepts related to Electron band theory,Superconductivity, Lattice Defects, and Diamagnetism. CO2: will be able to understand superconductivity, an elementary idea aboutthigh Tc superconductors. CO3: will be able to understand ionic lattice in presence of the infrared field,conducting polymers. CO4: will be able to understand lattice defects. CO5: will be able to understand temperature-dependent of saturatedmagnetization.
Paper-II Nuclear Physics	CO1: will be aware of concepts related to Deuteron. CO2: will be able to understand Shell Model. CO3: will be able to understand Compound Nucleus. CO4: will be able to understand the general classification of elementaryparticles. CO5: will be able to understand Alpha, beta, and gamma decay.
Paper-III (a) Introduction to Nano Scale Scienceand Technology	CO1: will acquire in-depth knowledge about Generic Methodologies forNanotechnology and classification. CO2: will be able to understand Carbon Nanostructures Introduction. CO3: will be able to understand Nanostructured Molecular MaterialsIntroduction CO4: will be able to understand inorganic nanostructures. CO5: will be able to understand Evolving Interfaces of Nano biology and theirapplications.
Paper-III (b) Laser and spectroscopy	CO1: will understand in-depth the various concepts related to Light Sources (Arc, Spark, Discharge, Beam Foil, etc.), Synchrotron, Laser, Thermal and Direct Photo Detectors, Optical Multichannel Analyzer, Charged Coupled Devices (CCD), Intensified Charged Coupled Devices (ICCD). CO2: will be aware of Fixed-frequency and Tunable lasers, YAG, Argon Ion, Excimer, Dye, and Semiconductor Lasers. CO3:will be aware of Laser Photoacoustic Spectroscopy, Laser Induced Fluorescence (LIF), and Laser-Induced Breakdown Spectroscopy (LIBS). will be aware of Laser Optogalvanic Spectroscopy Laser. CO4: will be aware of Raman Spectroscopy CO5: will be aware of the Medical Applications of Laser.
Paper-III (c) Analog and Digital Electronics	CO1: will acquire the specialized knowledge of Wideband amplifiers. CO2: will be aware of the Operational Amplifier CO3: will be aware of Linear Analog System. CO4: will be aware of the Non-linear Analog System.

	CO5: will be aware of Digital Electronics(TTL based).
Paper-IV (a) Synthesis and Characterization of Nanomaterials	CO1: will be aware of various methods of Synthesis. CO2: will be aware of the characterization of Nanomaterials. CO3: will be aware of lithographic methods. CO4: will be aware of X-ray diffraction, and application. CO5: will be aware of impedance analysis.
Paper-IV (b) Electronic Spectraof Diatomic Molecule	CO1: will be able to Review the electronic spectra of diatomicmolecules. CO2: will be aware of the thermal distribution of quantum states. CO3: will be aware of the classification of molecular states. CO4: will be aware of the building up principle. CO5: will be aware of the basic concept of continuous and diffusedspectra.
Paper-IV (c) Microwaves	CO1: will be aware of basic concepts and devices related tomicrowaves. CO2: will be aware of Vacuum Tube Microwave Generators. CO3: will be aware of Magnetron. CO4: will be aware of the Travelling wave tube. CO5: will be aware of Microwave Measurements.
Practicals-III Nanoscience and Nanotechnology/ Laser Spectroscopy and Electronics	CO1: will acquire practical skill in performing experiments on Operational Amplifier, Uni-junction Transistor, Logicom, Constant Voltage Power Supply and Transistor Biasing.
Paper-V Origin	CO1: will be aware of and understand Mathematical calculation CO2: will be aware of Graph plotting for the given equation. CO3: will be aware of Curve fitting and analysis of linear. CO4: will be aware of polynomial, exponential, or any given function. CO5: will be aware of the labeling of data points in the graph.

Paper-VI Electric and Magnetic Propertie s.	CO1: will be aware of the basics of Electrostatics in Free Space and various Laws. CO2: will be aware of Polarization. CO3: will be aware of Ampere's Law, Biot-Savart's Law, and the Law of forcein Magnetic Field on Currents and charged particles. Magnetic Field due to a straight infinite wire. Magnetic Field due tocircular. CO4: will be aware of Equation of Continuity, Maxwell Equations CO5: will understand the concepts of Superconductivity, the Meissner effect,and Type I and Type II superconductors.

Semester-IV

After completion of the Course, the student:

Paper-I Experimental Techniques & Control Systems	CO1: will be aware of various Experimental Techniques & Control Systems such as Data Interpretation and Analysis. CO2: will be aware of Optoelectronic Devices and Detectors. CO3: will be aware of Measurement and Control systems. CO4: will be aware of analog v/s digital data. CO5: will be aware of the Fourier transform and lock-in detector.
Paper-II Atomic and Molecular Physics	CO1: Will be aware of various concepts of Quantum states of an electron in anatom. CO2: will be aware of the Width of spectral lines. CO3: will be aware of Zeeman, Paschen Back & Stark's effect. CO4: will be aware of the spectra of diatomic molecules CO5: will be aware of Raman Spectra and Frank Condon's principles.
Paper-III (a) Micro and Nano Fabrication	CO1: will understand the Basic Micro fabrication Techniques. CO2: will be aware of MEMS and NEMS MEMS Fabrication. CO3: will be aware of Material Aspects and Applications of MEMS/NEMS Silicon - Germanium-Based Materials. CO4: will be aware of Clean room standards. CO5: will be aware of Process Integration Junction and Oxide Isolation.
Paper-III (b) Advanced Atomic Spectroscopy	CO1: will be aware of concepts and methods applied in advanced atomicSpectroscopy. CO2: will be aware of atomic Spectroscopy such as Lamb. CO3: will be aware of Complex Spectra and its interpretation. CO4: will be aware of Breit's Scheme, Inductively Coupled Plasma OpticalEmission Spectroscopy.

	CO5: will be aware of the Limitations of Optical microscopes and Electron microscopes, Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM), Atomic Force Microscopy (AFM), Scanning Tunneling Electron Microscopy (STEM), and Fluorescence Microscopy.
Paper-III (c) Microprocessor	CO1: will be aware of the knowledge of the Microprocessor. CO2: will be aware of Memory organization and mapping. CO3: will be aware of the Hardware description of 8085. CO4: will be aware of CMOS devices such as RAM & ROM. CO5: will be aware of A to D and D to A converters and understand theirworking.
Paper-IV (a) Applications of NanoTechnology	CO1: Will be aware of applications of Nano Technology such asSensors. CO2: will be aware of Nanotechnology Energy Devices Solar. CO3: will be aware of Potential Defence Applications and Militaryapplicationsof Nanotechnology. CO4: will be aware of Nano structured Food and Packaging Materials NaturalFood Nanostructures. CO5: will be aware of Biomedical Applications and Nano particles in Drug Delivery Magnetic Nanoparticles as Contrast Agents for Medical Diagnosis.
Paper-IV (b) Electronics: Semiconductor Devices	CO1: will be acquainted with Semiconductor Physics. CO2: will be aware of the PN junction diode. CO3: will be aware of the Tunnel diode. CO4: will be aware of Gunn diode. CO5: BJT and their applications.
Paper-IV (c) X-RayPhysics and Instrumentation	CO1: will understand and be able to X-rays. CO2: will understand and be able to X-rays FluorescenceSpectroscopy. CO3: will understand and be able to STEM. CO4: will understand and be able to Rydberg atoms and Rydberg states. CO5: will understand and be able to its application.

Paper-IV (d) IR & Raman Epectra of Polyatomic Molecules	CO1: will have in-depth knowledge about Symmetry Elements and SymmetryOperations, Point Groups, Classification of Molecules into PointGroups. CO2: will be aware of Rotation and Rotational Spectra of Linear Polyatomic Molecules and Symmetric Top Polyatomic Molecules and related concepts. CO3: will understand Vibrational Motion, Motion in Cartesian Coordinates,Mass Weighted Cartesian Coordinates, Normal Coordinates and Normal Modesof Motion; Vibrational Energy, Infra-red and Raman Vibrational Spectra. CO4: will be acquainted with Fermi Resonance, Several Potential Minima andInversion in Ammonia Molecule, Torsional oscillations and Active. CO5: will understand and be able to IR and Raman spectra of the linearpolyatomic molecule.
Paper-IV (d) Electronic Spectraof Diatomic Molecule	CO1: will be able to understand about electronic spectra and its applications. CO2: will be aware of the thermal distribution of quantum states. CO3: will be aware of the classification of molecular states. CO4: will be aware of the building up principle. CO5: will be aware of the basic concept of continuous and diffusedspectra.
Practicals-III Project Thesis/Dissertation	CO1: will be able to prepare Thesis/Dissertation.
Paper-V Device designing	CO1: will acquire practical Skill of Device Designing to fulfil our day to day need and the requirement of industries.
Paper-VI MATLAB Programming for Numerical Methods	CO1: Will be aware of the basics of MATLAB Programming for Numerical Methods. It gives the concept of making monitoring and control system of machines for different purposes. Programing in MATLAB, help to simulate the functioning of complicated machines virtually and we can text its working and change their structure according to its performance. CO2: will discuss airthematic operations. CO3: will understand and be able to introduce MATBAMprogramming. CO4: will understand and be able to numerical differential andintegration. CO5: will discuss ODE(ordinary Differential Equations).

B.Sc. [Mathematics]	
Programme Outcome (POs)	
PO1	Scientific temper will be developed in Students.
PO2	Students will acquire basic Practical skills & Technical knowledge along with domain knowledge of different subjects in the science stream.

PO3	Students will become employable; they will be eligible for career opportunities in Industry, or will be able to opt for entrepreneurship.
PO4	Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues.
Programme Specific Outcome (PSOs)	
PSO1	A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.
PSO2	Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.
PSO3	A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations , terminology.

Course Outcome-B.Sc.[Mathematics]

Semester-I

Paper-I (Algebra)	**CO.1**will understand Sets and Relations, Order Relation, Equivalence Relations, functions (maps), injective and surjective functions, Direct and inverse images of subsets under functions, Binary Operation on a set.
	CO.2 Will be aware of Number system, Natural number, Integers, Division Process in Z, Division Algorithm, Euclidean Algorithm, Fundamental theorem of arithmetic, Fermat's and Wilson's Theorems.
	CO.3 Will understand Congruence's and residue classes, Rational Numbers, Real Numbers, Axioms of Real Numbers, Archimedean Property, Density Property and Complex Numbers.
	CO.4 Will understand Complex Numbers, Relations between the roots and coefficients of a general polynomial equation in one variable, Transformation of equations, Descartes' rule of signs.
	CO.5 Will understand Solution of Cubic equations (Cardan's Method), Solution of biquadratic equations.
Paper-II (Calculus)	**CO.1** will understand the basic concepts of Calculus such as Functions of one variable, Limit and Continuity, Properties of Continuous Functions, Local boundedness and local preservation of sign.
	CO. 2 will understand Boundedness and intermediate value properties of continuous functions over closed intervals, Differentiability, Algebra of differentiable functions.
	CO. 3 will understand Interior extremum Theorem, Rolle's theorem, Lagrange's and Cauchy's mean- value theorems, Indeterminate forms.
	CO.4 will understand Successive differentiation, Leibnitz theorem, Maclaurin and Taylor series expansions, Tangents and normals, Asymptotes.
	CO.5 will understand Local maximum and minimum points,

	Critical points for absolute maximum and minimum over closed intervals, Curvature, tracing of curves in Cartesian and polar coordinates.
Paper-III (Analytical Geometry)	**CO.1** will be aware of Polar Coordinates, Distance between two given points, Polar equations of straight lines and circles.
	CO.2 will understand Polar equation of a conic, directrix, tangents and normal, Polar of a point with respect to a conic, Asymptotes.
	CO.3 will be aware of the concept of Orthogonal Cartesian coordinates of a point on space, Projections and direction cosines, Equation of plane in different forms, Plane bisecting angles between two given planes, Pairs of planes, Symmetrical and non-symmetrical forms of a straight line, shortest distance between two skew lines, coplanar lines.
	CO.4 Will be acquainted Pairs of planes, Symmetrical and non-symmetrical forms of a straight line, shortest distance between two skew lines, coplanar lines.
	CO.5 Will be aware of Equation of a sphere, plane section of a sphere and intersection of two spheres, spheres passing through a circle, tangent plane.
Paper-IV (Viva)	**CO.1** will be able to express the Concepts of Algebra, Calculus and Analytical Geometry Orally.

Semester-II

Paper-I (Algebra)	**CO.1** will be aware of Definition of a Group with examples and simple properties, Subgroups, Cyclic groups, Coset decomposition, Lagrange's Theorem, and its consequences, Fermat's and Euler's theorems.
	CO.2 will understand Homomorphism and isomorphism, Rings and Polynomial Rings and related theorems.
	CO.3 Will be aware of Permutation Groups, cycle decomposition, Even and odd permutations, the alternative group An, Cayley's theorem.
	CO.4 Will be aware of Rings, Subrings, Ideals and quotient rings, Ring homomorphism, Integral domains and fields, Field of quotient of an Integral domain.
	CO.5 Will be aware of Polynomial Rings over a Field, Division and Euclidean algorithms for Polynomials, Remainder & Factor Theorems.

Paper-II (Calculus)	**CO.1** will be acquainted with the concept of Functions of several variables, limits and continuity, Partial and total differentiation, Change of variables, Jacobian determinant, Homogeneous function and polynomial Euler's theorem on homogeneous functions, Integration of irrational algebraic functions and transcendental functions, Reduction formulae.
	CO.2 will understand definite integrals, Elementary ideas of improper integrals, Beta and Gamma functions.
	CO.3 Will be aware of Quadrature, Rectification, volumes and surfaces of solids of revolution, Double and triple integrals. Change of order of integration in double integrals.
	CO.4 Will be aware of Definite integrals, Elementary ideas of improper integrals, Beta and Gamma functions.
	CO.5 Will be aware of Definite integrals, Elementary ideas of improper integrals, Beta and Gamma functions.
Paper-III (Analytical Geometry)	**CO.1**will be aware of the concept and applicationof Plane of contact polar lines, angle of intersection of two spheres, power of a point, radical plane, line and center, co-axial system of spheres.
	CO.2will be acquainted with concept and application of Cone and cylinders with a given base, Intersection of a cone and a plane passing through the vertex of the cone, Tangent lines and planes.
	CO.3 will have the knowledge of concept and applications of Reciprocal cones, right circular cones and cylinders, Central Conicoids.
	CO. 4 Will be aware of Director sphere, polar planes and polar lines of conicoids, enveloping cones and cylinders of central conicoids.
	CO.5 Will be aware of Section of conicoids with a given centre, diametral planes, normals, conjugate diameters of an ellipsoid.
Paper-IV (Viva)	**CO.1** will be able to express the Concepts of Algebra, Calculus and Analytical Geometry Orally.

Semester-III

Paper-I Linear (Algebra)	**CO.1** Will be aware of the concepts and applications of Vector Spaces, Definition, Properties and examples, Linear combination of vectors, linear sum and direct sum of subspaces.
	CO.2 Will be aware of the concepts and applications of Linear span of subsets, linear independence of subsets, Definition of a basis, Invariance of basis number, Dimension, Dimension of linear sum of subspaces, Quotient spaces, Dimension of quotient space.
	CO.3 Will be aware of the concepts and applications of Linear Transformations, Definition, Properties and examples, Algebra of linear transformations.
	CO.4 Non singular linear maps, Fundamental theorems of vector space homomorphism, First and second Isomorphism Theorem.

	CO.5 Will be aware of the concepts and applications of Rank of a linear transformation, Rank-nullity Theorem, Equivalence of one-one and onto linear transformation from V to V, Dual space and dual bases, Transposeof a linear transformation.
Paper-II (Differential Equations)	**CO.1** will be acquainted with the concept and applications of Ordinary Differential Equations, , Linear equations and equations reducible to the linear form, Exact differential equations, Integrating factors.
	CO.2 will be acquainted with the concept and applications of First order higher degree equations, Equations solvable for x, y and p, Clairaut's form and Singular solutions, orthogonal trajectories.
	CO.3 will understand the applications of Linear differential equations with constant coefficients. Homogeneous linear differential equations and their solutions, Linear independence of solutions, Wronskian of solutions functions and its relationship with linear independence.
	CO.4 will be acquainted with Non-homogeneous linear differential equations, Method of undetermined coefficients.
	CO.5 Will be aware of Non-homogeneous linear differential equations, Method of undetermined coefficients.
Paper-III (Mechanics)	**CO.1** will be acquainted with Moment of a force, Couple of Forces, Analytical conditions of equilibrium of coplanar forces. .
	CO.2 will acquire the knowledge of Concept of Virtual work, Principle of virtual work & its applications.
	CO.3 will understand Common Catenary, intrinsic equation of common Catenary, Cartesian equation.
	CO.4 Will be aware of Stable and Unstable equilibrium.
	CO.5 Will be aware of Forces in three dimensions, Line coordinates of a line, Central axis and Wrench, Null line and null plane.
Paper-IV (Viva)	**CO.1** will be able to express the Concepts of Linear Algebra, Differential Equations and Mechanics Orally.

Semester-IV

Paper-I (Linear Algebra)	**CO.1** will be able to understand and apply the knowledge of Matrices, Matrix representation of a linear transformation. Change of base and its effect on matrix representation.
	CO.2 will understand and apply the knowledge of Elementary operations on matrices, Equivalent and similar matrices, Trace of a square matrix and of a linear transformation, Definition and properties of a determinant of a square matrix, Rank of Matrices, Rank- Nullity Theorems, Row and Column rank, Determinantal rank, Equivalence of notions of all the four types of rank

	CO.3 will be aware of the Applications of Matrices to a system of Linear equations and related theorems.
	CO.4 Will be aware of Applications of Matrices to a system of Linear (Both homogeneous and non- homogeneous) equations, theorems on consistency of a system of linear equations.
	CO.5 Will be aware of The characteristic equation of a matrix, Eigenvalues and eigenvectors, Cayley- Hamilton Theorem and its use in finding inverse of a matrix, Diagonalisation of square matrices having distinct Eigenvalues.
Paper-II (Differential Equations)	**CO.1** will be able to solve linear differential equations of second order with variable coefficients by changing the dependent/independent variable, finding particular solution by the method of variation of parameters, Linear differential equations of arbitrary orders and their solutions, Euler Cauchy equations.
	CO.2 will be able to use Inverse operator method for particular solutions of non-homogeneous equations, Coupled linear differential equations of first order with constant coefficients.
	CO.3will be aware of Linearity of Laplace transform, theorems, derivatives and Integrals for Laplace transforms.
	CO.4 Will be aware of Linearity of Laplace transform, Existence theorem for Laplace transforms Laplace transforms of derivatives and Integrals, Shifting Theorems.
	CO.5 Will be aware of Differentiation and integrations of transforms, Inverse Laplace transform, solution of differential equations using the Laplace transform.
Paper-III (Mechanics)	**CO.1** will be acquainted with the Concept of velocity, Acceleration, Velocities and accelerations along radial and transverse o directions and along tangential and normal directions.
	CO.2 will be aware of Simple Haronic Motion, Elastic string.
	CO.3 Will understand and able to apply Motion in a resisting medium, Motion on Smooth and rough plane curves
	CO.4 Will be aware of Central orbits, Kepler's Laws, Inverse Square law.
	CO.5 Will be aware of Motion of a particle in three directions, Accelerations in terms of different coordinate system.
Paper-IV (Viva)	**CO.1** will be able to express the Concepts of Linear Algebra, Differential Equations and Mechanics Orally.

Semester-V

Paper-I (Analysis)	**CO.1** will inderstand and and able to apply the Real sequences and their algebra, Limit of a sequence, Convergent, monotonic bounded and Cauchy's Sequences, Cauchy's general Principal of convergence, Convergence of Infinite series of positive terms. Cauchy's criterion, comparison test, Cauchy's nth root test.
	CO.2 Will be aware of various test , Limit and continuity of functions of several variables, Repeated limits, Partial derivatives, Differentiability for functions of several variables, Mean value Theorem Taylor's theorem. , Jacobians, Maxima, Minima and saddle points of functions of two and three variables. Lagranges Multiplier method and Differentiation of vector valued functions, Gradient, Divergence and curl, vector identities.
	CO.3 Will be aware of Limit and continuity of functions of several variables, Repeated limits, Partial derivatives, Differentiability for functions of several variables, Mean value Theorem Taylor's theorem.
	CO.4 Will be aware of Jacobians, Maxima, Minima and saddle points of functions of two and three variables. Lagranges Multiplier method.
	CO.5 Will be aware of Differentiation of vector valued functions, Gradient, Divergence and curl, vector identities.
Paper-II (Numerical Methods)	**CO.1** will be aware of the Importance of numerical methods, floating point representation, rounding off rules.
	CO.2 will understand the concept of Interpolation and related formula, Cubic spline interpolation, Clamped and natural splines
	CO.3 Will be aware of Interpolation, Forward, Backward and Central differences, Calculus of finite differences, Gregory-Newton Forward and Backward interpolations formulas.
	CO.4 Will be aware of Lagrange's and Newton's divided difference interpolation formula inverse interpolation, Formulas based on Central differences, Gauss, Stirlings, Bessel's and Evertt's interpolation formula.
	CO.5 Will be aware of Cubic spline interpolation, Clamped and natural splines.
Paper-III (Complex Analysis)	**CO.1** will understand and able to apply the Continuity and differentiability of functions of a complex variable. Analytic functions, Cauchy-Riemann equations, Harmonic functions.

	CO.2 Will be acquainted with Power series, Circle and radius of convergence, term by term differentiation, Power series representation of an analytic function, Standard exponential, trigonometric functions, logarithmic function of a complex variable, General power.
	CO.3 Will be aware of Line integrals in the Complex plane, Cauchy's Integral theorem, Cauchy's integral formula, Successive derivatives, Taylor's series.
	CO.4 Will be aware of Laurent's series, Liouville's theorem, Morera's theorem Zeros and singularities, Rouche's theorem.
	CO.5 Will be aware of Poles of analytic function, Residues, Cauchy's residue theorem, contour integration.
Paper-IV (a)Fluid Mechanics	**CO.1** will be aware of Equation of Continuity in Fluid motion, Equation of Continuity in Cartesian Coordinates.
	CO.2 will be aware of Equation of Continuity in Lagrangian form, Equation of Continuity in Cylindrical and Spherical coordinates.
	CO.3 will be aware of Stream Line, Path Line and their equations, Velocity potential, Vorticity vector.
	CO.4 will be aware of Boundary surfaces of fluid particles, Euler's Equations of motion for perfect fluids.
	CO.5 will be aware of Bernoulli's Equation, Impulsive motion and its Equation.
Paper-IV(b)Operation Research,	**CO.1** Will be aware of Linear programming, Linear programming problem (LPP), Two- variable LP. Procedure of solving two- variable LPP by Graphical method, Some Important Definitions related to General LPP.
	CO.2 Will be aware of Canonical and standard forms of LPP, Slack and surplus variables, Basic solutions of LPP, Solutions of General LPP, Simplex method Big- M Method, Two Phase method.
	CO.3 Will be aware of Degeneracy in simplex methods, Solutions of simultaneous Linear equations using Simplex method, Duality concept in LPP, Formulation of Dual Problem, Duality Principle.
	CO.4 Will be aware of Duality and Simplex Method. Important Results of Duality, Economic Interpretation of Duality and Duality theorems, Dual- Simplex Method, Limitations of Linear Programming.

	CO.5 Will be aware of Transportation and Assignment problems, Mathematical formulation of Transportation Problem , Balanced and unbalanced transportation problems, Solution of Transportation problem, Transportation table.
Paper-IV (c)Discrete Mathematics	**CO.1** Will be aware of Mathematical Logic Statements, Truth value of a statement, Logical connectives, Conjunction, Disjunction and Negation operations, Conditional and Biconditional join, Propositional functions, Tautologies and contradictions, Law of duality, Quantifiers.
	CO.2 Will be aware of Mathematical Logic Statements, Truth value of a statement, Logical connectives, Conjunction, Disjunction and Negation operations, Conditional and Biconditional join, Propositional functions, Tautologies and contradictions, Law of duality, Quantifiers.
	CO.3 Will be aware of Partially ordered set, Hasse Diagrams, Minimal and Maximal element in a poset, least and greatest element, Upper bounds and least upper bound, Lower bounds and greatest lower bound, Isomorphic posets.
	CO.4 Will be aware of Lattices, properties of lattices, Lattice as an Algebraic system, sub- lattices Isomorphic lattices, Bounded lattices, complete Lattices, complemented Lattices.
	CO.5 Will be aware of Boolean algebra, Principle of Duality, Switching Circuits, Logic Circuits OR Gate, AND gate, Logic Networks.
Paper-V (Viva)	**CO.1** will be able to express the Concepts Orally.

Semester-VI

Paper-I Analysis	**CO.1** will be aware of Riemann's Theory of integration of bounded functions over closed intervals and its applications.
	CO.2 will be acquainted with the concept of Integration over two and three dimensional spaces, Line integrals, Green's Theorem in a plane, Surface integrals, Gauss' and Stokes' Theorems.
	CO.3 will understand and able to apply Improper Integrals of first and second kinds and their convergence, Comparison tests, μ-test, Abel's and Dirichlet's tests.
	CO.4 Will be ware of definition and examples of metric spaces, Open and closed spheres, Open and closed sets, Interior boundary and exterior points.

	CO.5 Will be aware of the concept of Limits of subsets, Closure and interior of a set, Continuity of maps between metric spaces and their characterization
Paper-II Numerical Methods	**CO.1** will understand Numerical differentiation and Integration : Formulas for differentiation based on Lagrange's and on Gregory Newton's interpolation, quadrature formula Trapezoidal and Simpson's One- Third and three- eighth rules.
	CO.2 will be aware of Numerical Methods for O. D. E.'s First order equations, incremental methods, Euler's, Taylor series and Improved Euler methods, RungeKutta method.
	CO.3 Will be acquainted with Multistep methods, Predictor corrector pairs, Adam's- Bash forth, Adam's- Moulton and Milne Formulas, Second Order Equations, Taylor Series method.
	CO.4 Will be aware of Numerical Linear Algebra, Gauss Elimination, Gauss Jordan method, LU decomposition, Cholesky's Method, Diagonally dominant matrices, Gauss Jacobi and Gauss Seidel iteration formulas.
	CO.5 Will be aware of Least square approximation, Estimation of Eigen values Determination of elgenvalues and eigenvectors by iteration, Gerschgorin Theorem for positions of eigenvalues.
Paper-III Tensor Calculus	**CO.1**will have the knowledge of Transformation of coordinates, Contravariant and covariant vectors, Scalar, invariants, Scalar product of two vectors.
	CO.2 Will be able to understand Tensors of any order, symmetric and skew-symmetric tensors, Addition and multiplication of tensors, contraction composition and quotient law.
	CO.3will be aware of Fundamental and Curvature tensor, Ricci tensor, curvature tensor identities.
	CO.4 Will be aware of Christoffel symbols, Covariant derivatives of covariant and contravariant vectors, Covariant differentiation of tensors.
	CO.5 Will be aware of Curvature tensor, Ricci tensor, curvature tensor identities.
Paper-IV (a)Fluid Mechanics	**CO.1** will be acquainted with Two dimensional fluid motion, Stream function, Cauchy Riemann Equations, Complex potential.
	CO.2 Will understand Concept of source and sink, Strength of source and sink, Velocity potential due to a source and sink.
	CO.3 Will understand Doublet, Complex potential due to doublet, Image system

	CO.4 Will understand Motions of Sphere in perfect Fluid and motion of Liquid past a sphere.
	CO.5 Will understand Navier-Stokes equations for viscous flows-some exact solutions.
Paper-IV (b)Operation Research	**CO.1**Will be aware of Initial Basic Feasible solution, Methods of Finding Initial basic Feasible Solution, Optimality test, Modified Distribution (MOD) Method, Degeneracy of tramnsportation problems.
	CO.2 Will be aware of Maximization Transportation Problem, Trans-shipment Problem, Game theory characteristics of Game theory, Basic Definitions, Competitive Games, Zero- Sum and Non- Zero Sum Games.
	CO.3 Will be able to understand the Two person zerosum games, Minimax- Maximin Criterion, Saddle Poing, Solution of rectangular Games with and without Saddle Points,Minimax-Maximin Principal Dominance Property.
	CO.4 Will be aware of Graphical Method for 2xn and mx2 games without Saddle point, Applications and Limitations of Game theory, Network analysis, Basic Concepts, Construction of Network diagram analysis of Network diagram.
	CO.5 Will be aware of Critical path method, Object of CPM. Labeling method, Method based on time estimates, Slack and Float, pertcalculation requirements for the application of CPM and PERT.
Paper-IV (c)Discrete Mathematics	**CO.1** Will be aware of Discrete numeric functions Sum and Product of two discrete numeric functions, Generating functions, Recurrence relations.
	CO.2 Will be aware of Linear Recurrence relations with constant coefficients, Homogeneous Solution, Particular solutions, Solutions by Method of Generating function.
	CO.3 Will be aware of Graphs, Directed Graphs, In degree and Out degree of a vertex, Even and Odd vertex, Adjacent vertices, Walk, Trail, Path, Length of a Path Circuits.
	CO.4 Will be aware of Subgraph, Spanning subgraph, Operations on graphs, Complement of a subgraph, Connected and disconnected circuit graph, Isomorphic Graph, Regular

	Graph, Bipartite Graph, Matrix representation of a Graph, Adjacency matrix.
	CO.5 Will be aware of Euler Graph, Properties of Eulerian Graph (Without Proof), Hamiltonian Graph, Weighted Graph, Trees, Distance and centers in a tree, Eccentricity of a vertex, radius and diameter.
Paper-V (Viva)	**CO.1** will be able to express the Concepts Orally.

M.Sc.[Mathematics]	
Programme Outcome (POs)	
PO1	This programme also offers training in problem solving skills.
PO2	The student will be able to develop logical reasoning techniques and Techniques foranalyzing the situation.
PO3	The students shall appreciate the necessity of various Algebraic structures with binary operations such as Group, Ring.
Programme Specific Outcome (PSOs)	
PSO1	The student shall get an insight in the behavior of curves defined on a closed and bounded interval and some important properties of continuous, monotonic, and differentiable functions.
PSO2	To develop logical, analytical and Mathematical thinking power in the minds of students in order to cater the Mathematical needs of the society.
PSO3	The student will learn concepts like finite state machine, Boolean algebra.

Course Outcome-M.Sc.[Mathematics]

Semester-I

Paper-I (Abstract Algebra)	**CO.1** Will be aware of Isomorphism theorems for groups, Symmetric groups, Alternating groups,Dihedral groups, Matrix groups, Internal and External direct product and their relationship.
	CO.2 Will be aware of subnormal and normal series, Zassenhaus' lemma (statement only), Schreier's refinement theorem, Composition series, Jordan-Hölder's theorem, Chain conditions.
	CO.3 Will be aware of action of a group G on a set, Stabilizer subgroups and orbit decomposition, Class equation of an action, Transitive and effective actions, Equivalence of actions.
	CO.4 Will be aware of Sylow subgroups, Sylow's Theorem I, II and III, p-groups, Examples and applications, Groups of order p q, commutator subgroup and commutator series of a group, Solvable groups, Solvability of subgroups and factor groups andof finite p-groups, Examples.
	CO.5 Will be aware of Factorization theory in commutative domains,

	Prime and irreducibleelements, G.C.D., Euclidean domains, Maximal and prime ideals, Principal ideal domains, Divisor chain condition, Unique factorization domains, Examples and counter examples, Chinese remainder theorem for rings and PID's, Polynomial rings over domains.
Paper-II (Complex Analysis)	**CO.1** Will be aware of Review of algebra and geometry of C. Stereographic correspondence, complex differentiable functions, analytic functions, Cauchy-Riemann equations, necessary and Sufficient conditions for analyticity, power series and its radius of convergence, analytic function represented by power series, complex exponential, trigonometric and hyperbolic functions, conjugate functions, construction of analytic functions.
	CO.2 Will be aware of Complex line Integral over a piecewise smooth paths and its elementary properties, length of a curve, necessary and sufficient condition for independentof the line integral, Cauchy-Goursat theorem (statement only), Cauchy integral formula for derivatives.
	CO.3 Will be aware of Morera's theorem, Cauchy's estimate, Liouville's theorem, zeros of an analytic function, Cauchy's theorem for simply connected domains, Taylor series,isolated singularities (removable singularities, poles. and isolated essential singularities), Laurent series expansion theorem.
	CO.4 Will be aware of Open mapping theorem (Statement only), Maximum modulus theorem, Residue and singularity, residue at infinity, Cauchy theorem for residue, meromorphic function, argument principle, Rouche'stheorem, Evaluation of Contour integrals.
	CO.5 Will be aware of Schwarz lemma, Mobius transformations, fixed points of a Mobius transformation, cross ratio and its invariance under Mobius transformation.
Paper-III (Ordinary Differential Equations)	**CO.1** Will be aware of Picard 's method of Successive Approximations, Lipschitz' conditions, Existence and Uniqueness Theorems of Picard, p-discriminants and c-discriminants, Singular solutions.
	CO.2 Will be aware of Linear differential equations of arbitrary order, Wronskians, Abel Formula, Linearly independent solutions.
	CO.3 Will be aware of Power series method for solution of general linear equations for higher order, Legendre equations, Orthogonality relations for Legendre polynomials,Rodrigues' formula, Recurrence relations, Bessel's equation, Bessel functions' ofI and II kind, Recurrence Relations.
	CO.4 Will be aware of Laplace transforms, Existence criteria, Properties. Transforms of standard functions, Transforms of derivatives and integrals.
	CO.5 Will be aware of Inverse Laplace transforms, Existence and uniqueness criteria, Exponential shift, Applications to initial value problems.
Paper-IV	**CO.1** will be aware of Kinematics-Lagrangian and Eulerian methods,

(a)Fluid Dynamics	Equation of continuity, Boundary surface, Stream lines, Path lines, Velocity potential, Irrotational and rotational motion, Vortex lines.
	CO.2 will be aware of Lagrange's and Euler's equation of motion, Bernoulli's theorem, Equation of motion by flux method, Impulsive action, Equation referred to moving axes.
	CO.3 will be aware of Motion in two dimension, Complex velocity potential, Source, sinks, doublets and their images, Milne-Thomson circle theorem, Two-dimensional motion produced by motion of circular, co-axial and elliptic cylinder in an infinitemass of liquid. Kinetic energy of liquid.
	CO.4 will be aware of BlasiusTheorem,Motion of a sphere through a liquid rest at infinity, Liquid streaming past a fixed sphere, Equation of motion of sphere, Vortexmotion and its elementary properties, Motion due to circular and rectilinear vortices, Wave motion of a gas.
	CO.5 will be aware of Speed of sound, Equation of motion of gas, Subsonic, sonic and supersonic flows of a gas, Stress component in a real fluid, Relation between rectangular components of stress, Connection between stresses and gradient velocity, Navier-Stoke's equation of motion.
Paper-IV (b)Probability Theory	**CO.1** will be aware of Random Experiment and Probability Measure Random experiments, sample space, events, algebra of events, axiomatic definition of probability, probability spaces, relationship of axiomatic and classical probability, role of frequency ratios, probability of union of events, conditional probability and associated probability space, Bayes theorem, independence of events.
	CO.2 will be aware of Random Variable and Random Vector Random variables as functions, induced probability measure via inverse mapping, induced probability distribution, distribution functions, distribution functions and their properties, probability mass function (pmf) of discrete random variables, probability density function (pdf) of continuous random variables.
	CO.3 will be aware of Mathematical Expectation and Functions of Random Variables,moments, factorial moments, moment generating function, probability generating function, Expectation of jointly distributed random variables.
	CO.4 will be aware of Statistical Distributions: Bernoulli distribution, binomial distribution, Poisson distribution, derivation of Poisson distribution as a limiting case of binomial distribution, negative binomial distribution.
	CO.5 will be aware of Normal distribution and its relationship with the binomial and Poisson distribution, Cauchy distribution, bivariate normal distribution and its marginal and conditional distributions.

Paper-IV (c) Classical Mechanics	**CO.1** Will be aware of System of Particles –Energy and Momentum methods. Use of Centroid, Motion of a Rigid Body- Euler's Theorem, Angular momenturm and kinetic energy.
	CO.2 Will be aware of Euler's equation of motion of rigid body with one point fixed, Eulerian angles, motion of a symmetrical top.
	CO.3 Will be aware of Generalized coordinates, Velocities and momenta, Holonomic and nonholonomic systems, D' Alembert's Principle, Lagrange's equations of motion,Conservative forces.
	CO.4 Will be aware of Lagrange's equations for impulsive forces, Theory of small Oscillationsof conservative holonomic dynamical system, Hamilton's equations of motion.
	CO.5 Will be aware of Variational Principle and Principle of Least Action, Contact transformations, Poisson's Brackets, Hamilton Jacobi equation.
Paper-V (Discrete Mathematics)	**CO.1** will be aware of Partially ordered sets and lattices, Lattice as an algebraic system, Sublattices, Isomorphism of lattices, Distributive and modular lattices. Lattices as intervals, Similar and projective intervals.
	CO.2 will be aware of Fundamental dimensionality relation for modular lattices, Decompositiontheory for lattices with ascending chain conditions, i.e. reducible and irreducible elements. Independent elements in lattices.
	CO.3 will be aware of Boolean algebras, Conversion of a Boolean algebra into a Boolean ring with unity and vice-versa, Direct product of Boolean algebras, Uniqueness of finite Boolean algebras, Boolean functions and Boolean expressions.
	CO.4 will be aware of Graphs, Konisberg seven bridges problem, Finite and infinite graphs, Incidence vertex, Degree of a vertex.Isolated and pendant vertices, Null graphs.Isomosphism of graphs, Subgraphs, walks, Connected and disconnected graphs, Components of a graph, Euler graphs.
	CO.5 will be aware of Hamiltonian and circuits, The traveling salesman problem, Trees andtheir properties, Pendant vertices in a tree. Rooted and binary tree, Spanning tree and fundamental circuits.
Paper-VI (X-Ray Mathematical Statistics)	**CO.1** Will be aware of Types of data: Concepts of a statistical population and sample from a population, qualitative and quantitative data; nominal and ordinal data; crosssectional and time series data; discrete and continuous data; frequency and non- frequency data.
	CO.2 Will be aware of Presentation of Data: Construction of tables with one or more factors of classification. Diagrammatic and graphical representation of grouped data.Frequency distributions, cumulative frequency distributions and their graphical representation.

	CO.3 Will be aware of Analysis of Quantitative Data: Univariate data- Concepts of central tendency or location, dispersion and relative dispersion, skewness and kurtosis, and their measures including those based on quantiles and moments. Sheppard's correction for grouped data (without derivation).
	CO.4 Will be aware of Bivariate Data: Scatter diagram. Product moment correlation coefficient and its properties. Coefficient of determination. Concepts of error in regression, linear Regression and related results, Correlation ratio, Rank correlation- Spearman's and Kendall's measures. Intra class correlation.
	CO.5 Will be aware of Multivariate Data Multiple regression, multiple correlation and partialcorrelation in three variables.

Semester-II

Paper-I(Differential Geometry)	**CO.1** Will be aware of Curves in space R^3, parameterized curves, regular curves, helices, arc length, reparametrization (by arc length), tangent, principal normal, binormal, osculating plane, normal plane, rectifying plane, curvature and torsion of smooth curves, Frenet-Serret formulae, Frenet approximation of a space curve.
	CO.2 Will be aware of Osculating circle, osculating sphere, spherical indicatrices, involutes and evolutes, intrinsic equations of space curves, isometries of R, fundamental theorem of space curves, surfaces in R^3, regular surfaces, co-ordinate neighborhoods.
	CO.3 Will be aware of Normal fields and orientability of surfaces, angle between two intersecting curves on a surface, Gauss map and its properties, Weingarten map, second and third fundamental forms, classification of points on a surface.
	CO.4 Will be aware of Curvature of curves on surfaces, normal curvature, Meusnier theorem, principal curvatures, geometric interpretation of principal curvatures, Euler theorem, mean curvature, lines of curvature, umbilical points, minimal surfaces, definition and examples, Gaussian curvature, intrinsic formulae for the Gaussian curvature.
	CO.5 Will be aware of Christoffel symbols, Gauss formulae, Weingarten formulae, Gauss equations, Codazzi-Mainardi equations, curvature tensor, geodesics, geodesics on a surface of evolution, geodesic curvature of a curve.
Paper-II(Partial	**CO.1** will be aware of Formation of P.D.E's, first order P.D.E.'s,

DifferentialEquations)	Classification of first order P.D.E.'s, Complete, general and singular integrals, Lagrange's or quasi-linear equations.
	CO.2 will be aware of Integral surfaces through a given curve, Orthogonal surfaces to a given system of surfaces, Characteristic curves.
	CO.3 will be aware of Pfaffian differential equations, Compatible systems, Charpit's method, Jacobi's Method.
	CO.4 will be aware of Linear equations with constant coefficients, Reduction to canonicalforms, Classification of second order P.D.E.'s.
	CO.5 will be aware of Method of separation of variables:- Laplace, Diffusion and Wave equations in Cartesian, cylindrical and spherical polar coordinates, Boundaryvalue problems for transverse vibrations of strings and heat diffusion in a finite rod, Classification of linear integral equations, Relation between differential and integral equations.
Paper-III (Topology)	**CO.1** will be able to understand Definition and examples of topological spaces (including metric spaces). Open and closed sets, Subspaces and relative topology. Closure and interior, Accumulation points and derived sets, Dense sets Neighborhoods, Boundary,Bases and sub-bases. Homeomorphism, First and second countability and separable space, Lindelof space.
	CO.2 will be able to understand The separation axioms T_0, T_1, T_2 T_3, $T_{3(1/2)}$ and T_4, their characterizationsand basic properties, Urysohn's lemma, and Tietze extension theorem.
	CO.3 will be able to understand Compactness, Basic properties of compactness the finite intersection property; local compactness, One-point compactification.
	CO.4 will be able to understand Connected spaces and their basic properties, Connectedness of the real line, Components, Locally connected spaces.
	CO.5 Will be aware of Product topology in terms of the standard sub-base and its characterizations, Product topology and separation axioms, connectedness.countability properties and compactness.
Paper-IV (a)RingTheory	**CO.1** Will be able to understand the Ring, Homomorphisms of rings, Ideals, factor rings, Endomorphism of rings, idempotent and Nilpotent elements, Matrix rings, Modules and their Lattice, change of rings, Bimodules, Annihilators, Module homomorphisms, factor theorem, Exact sequences, Five lemma,

	Faithful and balanced module.
	CO.2 Will be able to understand the Direct summands, split exact sequences, Large and Small submodules, Direct products, Internal and external Direct sums. Decomposition of rings, idempotent. Semi simple modules, and Jacobson radical Generation andcogeneration, Trace and Reject, Finite generation and cogeneration.
	CO.3 Will be able to understand the Chain conditions, Composition series, Jordan- Holder theorem, fitting's lemma Indecomposable decomposition of modules, Azumaya decomposition and Krui Schmidt Theorem.
	CO.4 Will be able to understand the Simple Artinian rings, Wedderburn's theorem, Wedderburn-Artin theorem, Jacobson density theorem, Primitive Jacobson radical of rings,Nakayana lemma, Simiprimitive rings, Local Hopkin's theorem, Levitzki's theorem.
	CO.5 Will be able to understand the Projective and Injective modules, Homfunctor, Exact Functors, Dualbasis lemma, projective covers, Injective Test lemma (Bear's criterion), injective Envelopes, Direct sum of injectives, Injective cogenerators. Tensor products andfunctors, flat modules.
Paper-IV (b)Operations Research	**CO.1** Will be aware of Linear programming, convex sets, hyperplanes and half spaces, verticesof convex set, polyhedron and polytopes, separating and supporting hyperplanes, basic definition and theorem for a general linear programming problems using convex set theory, a simple LPP model and its graphical solution, standard formof general LPP, basic feasible solution, simplex Method and algorithm.
	CO.2 Will be aware of Transportation problem, mathematical formulation of a transportation problem, balanced and unbalanced transportation problem, initial basic feasible solution of a transportation problem using North-West corner rule, least cost method and vogel's approximation method (VAM), optimum solution of transportation problem using u-v method.
	CO.3 Will be aware of Assignment problem, mathematical formulation, Hungarian method for solving assignment problems, sales man routing problems.
	CO.4 Will be aware of Sequencing problem, problem with n-jobs and 2-machines, problems with n-jobs more than 2-machines (Johnson's method).
	CO.5 Will be aware of Network analysis, construction of network, time calculation in networkby CPM and PERT method, critical activity

	and slack time.
Paper-IV (c)Fields and Galois Theory	**CO.1** will understand the concept of Eisenstein's irreducibility criterion, Characteristic of a field, Prime subfields, Field extensions, Finite extensions, Simple extensions, Algebraic and transcendental extensions. Factorization of polynomials in extension fields.
	CO.2 Will be aware of Splitting fields and their uniqueness. Separable field extensions, Perfect fields, Separability over fields of prime characteristic, Transitivity of separability.
	CO.3 Will be aware of Automorphisms of fields, Dedekind's theorem, Fixed fields, Normal extensions, Splitting fields and normality, normal closures, Galois extensions, Fundamental theorem of Galois theory.
	CO.4 Will be aware of Primitive element theorem, Finite fields, Existence and uniqueness,Subfields of finite fields, Characterization of cyclic Galois groups of finite extensions of finite fields, fundamental theorem of algebra.
	CO.5 Will be aware of Cyclotomic extensions and polynomials, Cyclic extensions, Solvabilityby radicals, Galois' characterization of such solvability, Generic polynomials, Abel-Ruffini theorem, geometrical constructions.
Paper-V (Difference Equations)	**CO.1** Will be aware of Introduction, Difference calculus-The difference operator, Summation, Generating functions and approximate summation.
	CO2. Will be aware of Linear Difference equations-First order equations, General results for linear equations, Equations with constant coefficients, Applications, Equations with variables coefficients, Non-linear equations that can be linearized, The Z-transform.
	CO.3 Will be aware of Stability theory-Initial value problems for linear systems, Stability of linear systems, Stability of non-linear systems, Chaotic Behavior
	CO.4 Will be aware of the self adjoint second order linear equation, Sturmian theory Green functions, Disconjugacy, Riccati equations, Sturm-Liouvile problem, Finite Fourier Analysis.
	CO.5 Will be aware of Boundary Value problems for non-linear equations, The Lipschitz case, Existence of solutions, Discretization of Partial differential equations.
Paper-VI(Application	**CO.1** Will be aware of Financial Derivative-An Introduction, Types of Financial Derivative- Forwards and Futures, Option and its kinds, and

of MathematicsinFinance)	SWAPS, The Arbitrage Theoremand Introduction to Portfolio Selection and Capital Market Theory, Static and Continuous, Time Model.
	CO.2 Will be aware of Pricing by Arbitrage-A single-Period option Pricing Model, Multi-PeriodPricing Model, Bounds on Option Prices, The Ito's Lemma and the Ito's Integral.
	CO.3 Will be aware of The Dynamics of Derivative Prices-Stochastic Differential Equations (EDEs)-Major Models of SDEs, Linear Constant Coefficient SDEs, Geometric SDEs, Square Root Process.
	CO.4 Will be aware of Mean Reverting Process and Omstein-Uhlenbeck Process, Martingale Measure and Risk-Neutral Probabilities, Pricing of Binomial Options with equivalent martingale measure.
	CO.5 Will be aware of The Black-Scholes Option Pricing Model-using no arbitrage approach, Limiting case of Binomial Option Pricing and Risk-Neutral Probabilities.

Semester-III

Paper-I (Functional Analysis)	**CO.1** Will be aware of Normed linear spaces, Quotient spaces, Banach spaces and examples, Bounded linear transformations on normed linear spaces, B (X, Y) as a normed linear space.
	CO.2 Will be aware of Open mapping and closed graph theorems, Uniform boundedness principle, Hahn-Banach theorem and its applications, Dual space, Separabillty, Reflexivity, Weak and weak* convergence of operators, Compact operators and their basic properties.
	CO.3 Will be aware of Inner product spaces, Hilbert spaces. Orthogonal sets, Bessel's inequality, complete orthonormal sets and Parseval's identity, Structure of Hilbertspaces.
	CO.4 Will be aware of Projection theorem, Riesz representation theorem Riesz-Fischer theorem, Adjoint of an operator on a Hilbert space, Reflexivity of Hilbert spaces.
	CO.5 Will be aware of Self-adjoint operators, Positive, projection, normal and unitary operators and their basic properties.
Paper-II (Riemannian Geometry)	**CO.1** Will be aware of Riemannian metrics, Riemannian manifolds, examples, Levi-Civita connection, fundamental theorem of Riemannian geometry, Curvature tensors- Riemannian curvature tensor, sectional curvature, Schur's Theorem, Ricci curvature, scalar curvature.
	CO.2 Will be aware of Gradient vector fields, divergence of a vector field, Covariant derivative along a curve, parallel transport, length of a curve. Distance function, geodesics.
	CO.3 Will be aware of Jacobi fields, Gauss Lemma, complete Riemannian manifolds, Hopf- Rinow Theorem, The theorem of Hadamard, Riemannian immersions, second

	fundamental form, Gauss equation.
	CO.4 Will be aware of Lie derivative, Lie derivatives of scalars, vectors, tensors and linear connections, commutation formula for Lie differential operator and covariant differential operator.
	CO.5 Will be aware of Motion, Affine motion, projective motion in a Riemannian space, curvature collineation, conformal and homothetic transformations.
Paper-III (Measure and Integration)	**CO.1** Will be aware of Countable and uncountable sets, cardinalty and cardinal arthimatic, Schroder-Bernstein theorem, the Cantor's ternary set and its properties.
	CO.2 Will be aware of Semi-algebras, algebras, monotone class, σ-algebras, measure and outer measure, Caratheodory extension process of extending a measure on a semi- algebra to generate σ-algebra, completion of a measure space.
	CO.3 Will be aware of Borel sets, Lebesague outer measure and Lebesgue measure on R, translation invariance of Lebesgue measure , existence of a non measurable set, characterization of Lebesgue measurable sets, the Cantor-Lebesgue function.
	CO.4 Will be aware of Measurable functions on a measure space and their properties, Borel and Lebesgue measurable function, simple functions and their integrals, Littlewood's three principle(statement only) Lebesgue integral on R and its properties.
	CO.5 Will be aware of Bounded convergence theorem, Fatou's lemma, Lebesgue monotone convergence theorem, Lebesgue dominated convergence theorem, Minkowski;s and Holder;s inequalities.
Paper-IV (a)Theory of Relativity	**CO.1** Will be aware of The special theory of relativity: inertial frames of reference: postulates of the special theory of relativity; Lorentz transformations; length contraction, time dilation; variation of mass; composition of velocities; relativistic mechanics; world events, word regious and light cone; Minkowski space-time.
	CO.2 Will be aware of Energy-momentum tensors: the action principle; the electromagnetictheory; energy-momentum tensors (general); energy-momentum tensors (special cases); conservation laws.
	CO.3 Will be aware of General Theory of Relativity: introduction; principle of covariance; principle of equivalence; derivation of Einstein's equation; Newtonian approximation of Einstein's equations.
	CO.4 Will be aware of Solution of Einstein's equation and tests of general relativity:Schwarzchildc solution; particle and photon orbits in S. chwarzschild space-time gravitational red shift; planetary motion; bending of light; radar echo delay.
	CO.5 Will be aware of Brans-Dicke theory: scalar tensor theory and higher

	derivative gravity; Kaluzaklein theory.
Paper-IV (b)Wavelet Analysis	**CO.1** Will be aware of the discrete Fourier transform and the inverse discrete Fourier transform, their basic properties and computations, The fast Fourier transform, The discrete cosine transform and the fast cosine transform.
	CO.2 Will be aware of Construction of wavelets on $\mathbf{Z}_N$, First stage and by iteration, The Haar system, Shannon wavelets, Daubechies D wavelets on $\mathbf{Z}$, Description of $l^2(\mathbf{Z})$, 6 N $L^2[-\pi,\pi)$, $L^2(R)$, their orthonormal bases, Fourier transform and convolution on $l^2(\mathbf{Z})$, wavelets on ZHaar wavelets on Z.
	CO.3 Will be aware of Orthonormalbases generatedby a single function in $L^2(R)$,Fouriertransform and inverse Fourier transform of a function f in $L^1(R)\cap L^2(R)$,Parseval'srelation, Plancherel's formula, Orthonormal wavelets in $L^2(R)$, Balian-Low theorem.
	CO.4 Will be aware of Multi-resolution analysis and MRA wavelets, certain function in $L^2(R)$ For which $\{\psi_{j,k}\}$ does not form an orthonormal system, compactly supported wavelets, band-limited wavelets.
	CO.5 Will be aware of Franklin wavelets on R, Dimension function, Characterization of MRAWavelets (Sketch of the proof), Minimally Supported Wavelets, Wavelet Sets, Characterization of two-interval wavelet sets, Shannon wavelet.
Paper-IV (c)Algebraic Topology	**CO.1** Will be aware of Homotopy of paths, fundamental group of a topological space, fundamental groups, functor, homotopy of maps of topological spaces; homotopyequivalence; contractible and simply connected spaces.
	CO.2 Will be aware of Fundamental group of the circle, Calculation of fundamental groups of S^n (n>1) RP^2 .
	CO.3 Will be aware of Covering spaces, unique lifting theorem, path-lifting theorem, covering homotopy theorem, criterion of lifting of maps in terms of fundamental groups, universal covering space.
	CO.4 Will be aware of Singular complex of a topological space, singular homology groups and their funcoriality, homotoy invariance of homology, Eilenberg-Steenrod axioms (without proof), abelianization of the fundamental group.
	CO.5 Will be aware of Calculations of homology of S^n Brouwer's fixed point theorem for $f:D^n \rightarrow D^n$ (n > 2) and its applications to spheres and vector fields, Meyer-Vietoris sequence and its Applications.

Paper-V (Sampling Theory)	**CO.1** Will be aware of Simple random sampling and Stratified sampling Sample surveys versuscomplete enumeration, Non sampling errors, Simple random sampling with and without replacement, simple random sampling for attributes, Stratified random sampling, advantages of stratification, methods of allocation.
	CO.2 Will be aware of Use of auxiliary information, systematic and cluster sampling Use of auxiliary information: Ratio, regression and product method of estimation, Systematic sampling, Cluster sampling with equal clusters.
	CO.3 Will be aware of Quality Control Importance of statistical methods in industrial research and practice, specification of items and lot qualities corresponding to visual gauging, count and measurements, types of inspection, determination of tolerance limits.
	CO.4 Will be aware of Vital Statistics Crude, death rates, infant mortality rates, standardized death rate, complete and abridge life table – construction and uses, mortality rate and probability of dying, use of survival tables.
	CO.5 Will be aware of Measurement of fertility - crude birth rate, general fertility rate, total fertility rate, gross reproduction rate, net reproduction rate, population growth andlogistic model for population projection.
Paper-VI (Bio-Mathematics)	**CO.1** Will be aware of Dimensional Analysis in Mathematical Physiology, Budckingham's Theorem, mathematics of diffusion, Fick's Law of diffusion, Diffusion Through aMembrane, Convective Transport.
	CO.2 Will be aware of Population Biology: Malthusion Model, Logistic model, Equilibrum Analysis, Stability & Classification of equilibrium points, predator- Prey Models, Lotka- Volterra Model.
	CO.3 Will be aware of Biofluid mechanics: Basic Equations of Viscous Fluid motion, Poiseuille's Pulsatile Flow of Blood, Analysis of Arterial Flow Dynamics
	CO.4 Will be aware of Blood flow in Veins: Elastic Instability, Steady Flow in CallapsibleTube,unsteady Flow in Veins: Heart Mechanics- Equations, Active Contraction to Heart Muscle, Fluid and solid Mechanics of Heart
	CO.5 Will be aware of Micro-circulation: Introduction, Pressure and velocity distribution in micro vessels, Velocity- Hematocrit Relation, Bolus Flow, Stokes flow, mechanics of flow at low Reynolds number, Blood flow in pulmonary blood vessels.

Semester-IV

Paper-I (Number Theory)	**CO.1** Will be aware of Primes, Fundamental Theorem of Arithmetic, Euclid's theorem, Fermat and Mersenne Primes, Infinitude of Primes of certain types. Congruence's, Euler's phi function, Euler-Fermat theorem, Fermat's little theorem, Wilson's theorem.

	CO.2 Will be aware of Linear congruence equations, Chinese Remainder theorem, multiplicatively and expression for (n), Congruence equtions of higher degree, Prime power congruence's, Power residues.
	CO.3 Will be aware of Quadratic Residues, Legendre symbols, Gauss' lemma, Quadratic Reciprocity law and applications, Jacobi symbol, Tests of Primality, Factors of Mersenne numbers.
	CO.4 Will be aware of Multiplicative functions τ and μ their multiplicatively, Moebius inversion formula and its converse, Group structure under convolution product and relations between various standar functions, Diophantine equations, Sums of squares.
	CO.5 Will be aware of Simple continued fractions, Infinite continued fractions and irrational numbers, Periodicity, Pell's equation. Distribution of primes, Function $\pi(x)$,Tschebyschef's theorem, Euler's identity, Euler's formula for (n), Jacobi's formula.
Paper-II (Differential Manifolds)	**CO.1** Will be aware of n-dimensional real vector space, contravariant vectors, dual vector space, covariant vectors, tensor product, second order tensors, tensors of type (r, s), symmetry and skew symmetry of tensors, fundamental algebraic operations, quotient law of tensors.
	CO.2 Will be aware of Topological manifolds, compatible charts, smooth manifolds, examples, smooth maps and diffeomorphisms, definition of a Lie group, examples.
	CO.3 Will be aware of Tangent and cotangent spaces to a manifold, derivative of a smooth map, immersions and submersions, submanifolds , vector fields, algebra of vector fields, φ-related vector fields.

	CO.4 Will be aware of Integral curves of smooth vector fields, complete vector fields, flow of avector field, distributions, tensor fields on manifolds, r-forms, exterior product, exterior differentiation.
	CO.5 Will be aware of Affine connections (covariant differentiation) on a smooth manifold,torsion and curvature tensors of an affine connection, identities satisfied by curvature tensor.
Paper-III (Calculus of variations and Integral Equations)	**CO.1** Will be aware of Euler's equations, Functional dependence order derivatives, Functional dependence on functions of several independent variables. Variational problems with moving boundaries.
	CO.2 Will be aware of One sided variation, Variational problems with subsidiary conditions, isoperimetric problems, Rayleigh-Ritz method, Galerkin's method.
	CO.3 Will be aware of Classification of integral equations, Neumann's siterative method for Fredholm's equation of second kind,

	CO.4 Will be aware of Volterra type integral equation, integral. Equation of first kind convolution type integral
	CO.5 Will be aware of Non-linear voltera equations. Hilbert Schmidt theory.
Paper-IV (a)Finsler Geometry	**CO.1** Will be aware of Line elements, Finsler space, Minkowskian space, Tangent space, Indicatrix, Metric Tensor, Dual tangent space, Angle between two vectors, Generalized Christoffel symbols, Geodesics.
	CO.2 Will be aware of δ-derivative, Partial δ-derivative, Fundamental postulates of E. Cartan, Different deductions, Cartan's two processes of covariant differentiation, Berwaldconnection parameters, Berwald's covariant differentiation.
	CO.3 Will be aware of Commutation formulae resulting from Cartan's covariant differentiation, Cartan curvature tensor, Commutation formulae resulting from Berwald's covariant differentiation, Berwald curvature tensor, Generalizations of Bianchi identities, Space of scalar curvature, Space of constant curvature, Generalization of Schur's theorem, Recurrent spaces.
	CO.4 Will be aware of Projective change, Projective invariants, Projective change of Berwald's connection parameters, Projective deviation tensor, GeneralizedWeyl's projective curvature tensor, Projective connection parameters, Projectively flat spaces,
	CO.5 Will be aware of Infinitesimal transformations, Lie derivative of scalars, vectors and tensors, Lie derivative of connection parameters of Cartan and Berwald, Motion, Affine motion and Projective motion.

Paper-IV **(**b)Module Theory	**CO.1** Will be aware of Modules over a ring, Endomorphism ring of an abelian group, R-Module structure on an abelian group M as a ring homomorphism from R to End Z^M submodules, Direct summands, Annihilators, Homomorphism, Factor modules, Statements of Correspondence theorem and Isomorphism theorems, Hom_R (M, N) as an abelian group and Hom_R(M, M) as a ring, Exact sequences.
	CO.2 Will be aware of Free modules, Homomorphism extension property, equivalentcharacterization as a direct sum of copies of the underlying ring, existence of a basis of a vector space, Split exact sequences and their characterizations.
	CO.3 Will be aware of Projective modules, Injective modules, Baer's characterization, Divisible groups, Examples of injective modules.
	CO.4 Will be aware of Submodules of finitely generated free modules over a PID, Torsion submodule, Torsion and torsion-free modules, Direct decomposition into T(M) and a free module, p-primary components, Decomposition of p-primary finitely generated torsion modules, Decomposition into invariant factors and uniqueness, Direct sum decomposition of finite abelian groups into cyclic groups and their enumeration.
	CO.5 Will be aware of Reduction of matrices over polynomial rings over a field, Similarity of matrices and F[x]-module structure, Rational canonical form of matrices, Elementary Jordan matrices, Reduction to Jordan canonical form, Diagonalizable and nilpotent parts of a linear operator.
Paper-IV (c)Magneto-hydrodynamics	**CO.1** Will be aware of Maxwell's electromagnetic field equations, equation of motion of conducting fluid, energy equation magneto fluid dynamics approximation.

	CO.2 Will be aware of Properties of MFD equations, MFD equation for special cases , magnetic Reynolds numbers, Boundary conditions Alfven's theorem, magnetic body force, Ferrar's law of isorotation**.**
	CO.3 Will be aware of One dimensional flows- Quasi one dimensional assumptions, Equation of continuity, Equations for average electric current density, electric and magneticfields, Equations of motion and energy.
	CO.4 Will be aware of Study flow of inviscid, Viscous and heat conducting fluids, Viscous flows- Hartmann flow, Hydromagnetic coquette flow, Hydromagnetic flow through an annulus.
	CO.5 Will be aware of MFD Pipe flow, MFD boundary Layer approximations, MFD flow past on infinite flat plate, MFD flow past a semi infinite flat plate, MFD Rayleigh problem.
Paper-V (Mathematical Modelling)	**CO.1** Will be aware of Uncoupled and coupled linear Systems, Reduction of coupled linear system to uncoupled linear system, Exponentials of operators, Fundamental theorem for linear systems, Non-homogeneous linear systems.
	CO.2 Will be aware of Non-linear Autonomous system, Linearization, The phase plane & its phenomena, Critical points, Types of critical points, Phase plane analysis, Conservative systems.

	CO.3 Will be aware of Variational matrix, Stability analysis of linear and nonlinear systems using variational matrix, Liapunov Function, Stability by Liapunov's Direct Method.
	CO.4 Will be aware of Mathematical model, Formulation of mathematical models, Classification of mathematical models, Malthusian growth model, Logistic growth model, Regrowth Model, Delayed differential models.
	CO.5 Will be aware of Lotka-Volterra predation model, Rosenzweig-MacArthur model, Lotka- Volterra competition model, Lotka-Volterra models of mutualism, obligate and non-obligate mutualism, effect of mutualism on predator-prey and competitive systems.
Paper-VI (Application of Mathematics in Insurance)	**CO.1** Will be aware of Concepts from Insurance-Introduction, The claim Number Process, The claim Size Process, Solvability of the Portfolio, Reinsurance and Ruin Problem.
	CO.2 Will be aware of Premium and ordering of Risks-Premium Calculation Principles andOrdering Distributions, Distribution of Aggregate claim Amount-Individual and Collective Model, Compound Distributions, Claim Number of Distributions.
	CO.3 Will be aware of Recursive Computation Methods, Lundberg Bounds and Approximationby compound Distribution.

	CO.4 Will be aware of Risk Processes-Time Dependent Risk Models, Poisson Arrival Processes, Ruin Probabilities and Bounds Asymptotic and Approximation.
	CO.5 Will be aware of Time Dependent Risk Models-Ruin Problems and Computations of Rui Functions, Dual Queuing Model, Risk Model in Continuous Time and Numerical Evaluation of Ruin Functions.

Faculty of Commerce	
B.Com.	
Programme Outcome (POs)	
PO1	The program will enable students to develop business acumen, managerial skills and abilities, and be capable of maintaining business accounts.
PO2	Students will be able to communicate effectively both in terms of business as well as social interaction.
PO3	The program will encourage entrepreneurship spirit among students and encourage them to participate effectively in social, commercial and civic issues ultimately leading to national development.
PO4	The program will develop the ability to think critically and independently translating into a well developed personal value system.
PO5	will be eligible for admissions to post-graduate programs for further studies and will be able to appear for various competitive exams of UG level eligiblity.
PO6	The student will develop self employment skill in different areas.
Programme Specific Outcome (PSOs)	
PSO1	The student will be aware of basic concepts of Accounting, different laws of Business, Principle of Management and Theory of Economics.
PSO2	The student will be aware of business statistics and various economic environments.
PSO3	The student will develop communication skill and will be aware of various theories of Cost and Direct Taxation.
PSO4	The student will develop practical skill for calculating tax liabilities, Manegerial finance and auditing.
PSO5	The student will be aware of fundamental of computing in business, decision making at managerial level and practical knowledge of Corporate accounting and Secretarial Practices.
PSO6	The student will be able to understand principles of marketing, International

	marketing, banking and insurance.
PSO7	The student will be aware of different labour laws, Social Security.
PSO8	The student will have developed a strong sense about analysis of Financial Markets and financial services.
PSO9	The student will be aware of in-depth knowledge of Sales Marketing and Foreign trade.

Course Outcome
B.Com. 1st Semester

After completion of the course the student will :-

Paper 1 (Financial Accounting)	**C01:** Aware of principle and concepts of accounting. **C02:** Aware of the technical expertise in maintaining the booksof Accounts. **C03:** Understand and appreciate the work of maintaining the books of Accounts for future reference **C04:** Able to understand practical application of accounting. **Co5:** Able to understand Accounting standard and international accounting standards.
Paper 2 (Elements of Statistics)	**C01:** Able to understand concept of statistics. **C02:** Aware of practical exposure on calculation of measures of average. **C03:** Understand and appreciate the work of collection of data. **Co4:** Understanding the classification and Presentation of data.
Paper 3 (Business Economics)	**C01:** Understand the knowledge of Economics. **C02:** Able to demand and supply. **C03:** To provide knowledge about various types of market in micro Economics. **C04:** Have better understanding of law of production. **Co5:** Understand the concept of utility analysis and consumer surplus
Paper 4 Principle of Management)	**C01:** Have knowledge about evolution of management thoughts. **C02:** Able to plan, decide and manage a business. **C03:** Able to understand organisation structure and different types of Organisation. **C04:** Aware of principle, function and different management theories. **Co5:** Understand the concept of authority and Responsibility, Centralization and decentralization.
Paper 5 (Contract Law)	**C01:** Have knowledge about business and corporate law. **C02:** Able to understand contract and various types of contracts. **C03:** Able to various provision of contract law and principle of contract. **Co4:** Able to understand contract of Indemnity guarantee bailment. **Co5:** Understand the concept of Agency and Pledge.

Paper 6 (Business Environment)	**C01:** Able to understand business environment and various type of business environment. **C02:** Have knowledge about Indian Economy system. **C03:** Able to understand monetary system and industrial sickness. **C04:** Have better understanding of unemployment and poverty. **Co5:** Understanding of Balance of Trade, Balance of Payment.

B.Com. 2nd Semester

After completion of the course the student will be :-

Paper 1 (Advance Accounting)	**C01:** Aware of accounting method, procedure and technique. **C02:** Have knowledge about reserve and provision. **C03:** Understand and appreciate to branch accounting and departmental Accounting. **C04:** Able to practical use of accounting in non-profit organization. **Co5:** Having knowledge of Hire Purchase and installment payment system.
Paper 2 (Business Statistics)	**C01:** Aware of calculation of measures of correlation and regression. **C02:** Have knowledge about interpolation and extrapolation. **C03:** Understand Central Statistics Organisation (CSO) and National Sample Survey Organization (NSSO). **C04:** Aware of techniques and concept of different types of Index numbers. **Co5:** Having knowledge of interpolations and extrapolation.
Paper 3 (Theories of Distribution)	**C01:** Have understand the various theories of distribution. **C02:** Aware of concept of public finance. **C03:** Have knowledge about various sources of public revenue and Principle of taxation. **Co4:** Having knowledge of Theories of profit, Normal Profit, abnormal Profit. **Co5:** Aware of various theories of interest, wages.
Paper 4 (Business Management)	**C01:** Have understand the use of management in business. **C02:** Aware of direction and motivation theories. **C03:** Have knowledge about leadership, Communication, staffing And controlling. **C04:** Understand the changes in business and ability to Manage changes. **Co5:** Able to knowledge of Management controlling, and co-ordination.
Paper 5	**C01:** Have understand the concept of sale of goods act 1930.

(Business Law)	**C02:** Understand various aspect of partnership act 1932. **C03:** Have knowledge about foreign exchange Management act 2000 **C04:** Have knowledge about consumer protection act 1986 **Co5:** Having knowledge of Negotiable instrument. Act 1881
Paper 6 (Economic Environment)	**C01:** Have understand the NITI Aayog. **C02:** Able to understand world trade organization and UNCTAD **C03:** Have knowledge about World Bank and IMF. **Co5:** Having knowledge about various component of economic environment, resources allocation. **Co5:** Understanding the concept and meaning of LPG Industrial policy.

B.Com. 3rd Semester

After completion of the course the student will :-

Paper 1 (Theory of Cost)	**C01:** Have knowledge about cost accounting and their method And technique **C02:** Aware of Element of cost. **C03:** Able to differentiate between cost and financial Accounting. **C04:** Able to understand costing principles. **Co5:** Able to understand methods and Techniques of material control.
Paper 2 (Principles of tax)	**C01:** An expertise and able to understand the Income tax act 1961 **C02:** Able to solve different problem related to calculation of salary And taxable income. **C03:** Have understand the process of filling the return. **C04:** Have knowledge about income tax authorities. **Co5:** Understand the concept of appeal and revision.
Paper 3 (Business finance)	**C01:** Have knowledge about finance and their use in business. **C02:** Able to understand cash flow statement and fund flow Statement. **C03:** Aware of capitalization and theories of capitalization **C04:** Will be expertise in working capital management. **Co5:** Able to understand uses of Ratio analysis.
Paper 4 (Theory of Communication)	**C01:** Have better understanding of communication and different theories of communication **C02:** Aware to report writing. **C03:** An expertise and able to understand interview skill. **C04:** Able to apply modern forms of communication

	Co5: Knowledge about Barriers of communication and Principle of effective communication.
Paper 5 (Principles of Auditing)	**C01:** Have better understanding of method and procedure of auditing. **C02:** Aware of Importance of Vouching. **C03:** Have knowledge about method of valuation and verification. **Co4:** Providing knowledge of Internal check, Internal contract, and Internal audit. **Co5:** Able to understand importance of Audit documentation like working papers, Audit programme.
Paper 6 (Indian Economy)	**C01:** Have understand the structure of Indian economy. **C02:** Able to know about economy planning in India. **C03:** Be aware of Uttar Pradesh economy. **C04:** Have better understand of development of industries in India. **Co5:** Knowledge of resources and population.

B.Com. 4thSemester

After completion of the course the student will :-

Paper 1 (Cost Accounting)	**C01:** Have knowledge about unit costing. **C02:** Able to calculate tender price and contract price. **C03:** Able to solve the problem related to process costing an operating costing. **C04:** Able to understand cost audit. **Co5:** Able to reconcile cost and financial accounts.
Paper 2 (Income tax law and pratice)	**C01:** Able to calculate profit from business and Profession. **C02:** Aware of concept of set off and Carry forward of losses. **C03:** Have knowledge about computation of total taxable income of Individual. **C04:** Able to understand and calculate TDS. **Co5:** Providing knowledge of Assessment of HUF, FIRMS, AOP/BOI
Paper 3 (Managerial finance)	**C01:** Able to use of finance in managerial Decision. **C02:** Have knowledge about leverage and understand its use in Finance. **C03:** Appreciate and understand the theories of dividend. **C04:** Have knowledge about capital budgeting and its method. **Co5:** Having knowledge about capital structure, capital gearing, Trade on equity.

Paper 4 (Business Communication)	**C01:** Able to demonstrate a good understanding of effective business writing and effective business communications. **C02:** Able to developing and delivering effective Presentations. **C03:** have knowledge about nonverbal communication and apply it. **Co4:** Having knowledge about communication models and corporate communication. **Co5:** Able to draft persuasive letter, office memorandum and circular.
Paper 5 (Auditing)	**C01:** Able to understand about company auditor. **C02:** have better understanding about auditor report. **C03:** Able to know about audit of banking and insurance companies. **Co4:** Knowledge about audit v/s Investigation, Inquiry, Inspection. **Co5:** Able to understand recent trends in auditing.
Paper 6 (Rural Development and Agriculture)	**C01:** Have knowledge about land reform in India. **C02:** Able to know about problem related to agriculture. **C03:** Have knowledge about agricultural development in Uttar Pradesh. **Co4:** Having knowledge about unemployment and resources. **Co5:** Understanding of rural development, Green revolution.

B.Com. 5thSemester

After completion of the course the student will:-

Paper 1 (Corporate Accounting)	**C01:** Able to solve problem related to share and debenture. **C02:** Be an expertise in preparation of final account of companies. **C03:** Have knowledge about calculation of goodwill of companies. **C04:** Aware of profit prior to incorporation. **Co5:** Able to understand buy backs of share, Bonus share, Right share.
Paper 2 (Management Accounting)	**C01:** Aware of technique management accounting in decision making. **C02:** Understand and appreciate to Responsibility accounting and Differential cost accounting. **C03:** Able to solve practical problem related to fund flow statement, Cash flow statement. **C04:** Have knowledge about business budgeting. **Co5:** Understanding of differences between management and financial accounting.
Paper 3 (Corporate Law)	**C01:** Aware to company and types of company. **C02:** Able to understand formation and Incorporation of company. **C03:** Understand different types of document related to company. **C04:** Have knowledge about share capital, transfer of share, borrowing power and debenture. **Co5:** Understanding of Liquidator duties, power and liabilities.
Paper 4 (Fundamentals of computer)	**C01:** Able to understand the history of computer and types of computer **C02:** Able to differentiate between software and hardware of

	computer. **C03:** Able to calculate computer number system. **C04:** Have knowledge about set theories. **Co5:** Providing knowledge of computer network and internet.
Paper 5 Group I A- (Principle of Marketing)	**C01:** Have understand the marketing and consumer behavior. **C02:** Able to understand product and product life cycle. **C03:** Understand and appreciate to marketing research **C04:** Aware to marketing of agriculture product. **Co5:** Knowledge about marketing research personal selling.
Paper 5 Group II A-(Principle of life Insurance)	**C01:** Able to understand insurance and types of insurance. **C02:** Have knowledge about principle related to insurance. **C03:** Able to know about procedure of insurance claims. **Co4:** Providing knowledge about principle of corporation, **Co5:** Understanding about insurance premium, method of premium computation.
Paper 5 Group III A-(Industrial labour welfare)	**C01:** Aware to labour welfare and types of labour welfare. **C02:** Have knowledge about industrial dispute and settlement. **C03:** Able to know process of collective bargaining. **C04:** Understand the fixation of wages and different theories of wages. **Co5:** Knowledge and understanding about grievance procedure.
Paper 5 Group IV A- (Financial Market in India)	**C01:** Aware to Indian financial system. **C02:** Able to know about money market and instrument of money Market. **C03:** Have knowledge about RBI and understand the method of Credit control. **C04:** Aware to capital market and mutual fund. **Co5:** Knowledge about treasury bill market.
Paper 6 Group I B- (International Marketing)	**C01:** Able to understand international market and international Marketing environment **C02:** Have knowledge about total quality management. **C03:** Aware to international marketing advertisement instruments. **Co4:** Knowledge about brand and trade mark. **Co5:** Able to understand international pricing and advertising.
Paper 6 Group II B- (Indian monetary system and policy)	**C01:** Able to understand Money and classification of money. **C02:** Able to understand different theories related to money. **C03:** Have knowledge about Monetary policy reforms in India. **C04:** Able to differentiate between monetary policy and fiscal policy. **Co5:** Understanding the concept of inflation.
Paper 6 Group III B- (Social security in India)	**C01:** Able to know development of social security in India. **C02:** Aware of different Act related to social security in India. **C03:** Have knowledge about fringe benefit and services.

	C04: Able to understand provision related to industrial accidents and Safety **Co5:** Understanding the concept of industrial housing in India and physical environment.
Paper 6 Group IV B- (Security and Financial Services)	**C01:** Able to know investment. **C02:** Have knowledge about Portfolio management and investment environment. **C03:** Able to know the risk return relationship. **C04:** Have knowledge about various institution related to security Market. **Co5:** Knowledge about SEBI, stock exchange.

B.Com. 6thSemester

After completion of the course the student will:-

Paper 1 (Advance Corporate Accounting)	**C01:** Able to know the accounting standard **C02:** Able to solve the problem related to amalgamation and reconstruction of companies. **C03:** Able to understand the liquidation of companies. **C04:** Gain ability of solving problem related to Holding companies. **Co5:** Able to solve problem of holding companies.
Paper (Advance Management Accounting)	**C01:** Able to know different types of budget and budgetary control. **C02:** Have knowledge about management costing system. **C03:** Aware to abortion and marginal costing. **C04:** Able to solve problem related to break even analysis and profit Analysis. **Co5:** Having knowledge about variance analysis.
Paper 3 (Corporate law and Secretarial practice)	**C01:** Able to understand annual general meeting of company. **C02:** Have knowledge about appointment and qualification of Director. **C03:** Aware to company secretary. **Co4:** Knowledge about inspection inquiry and investigation. **Co5:** Awareness about compromise arrangement in amalgamation.
Paper 4 (Computer application in business)	**C01:** Able to know about information technology. **C02:** Have knowledge about E-Commerce and various types of E Commerce **C03:** Able to knowledge about accounting package **C04:** Gain ability of accounting software (Tally, Wings) **Co5:** Providing knowledge about computer assisted audit technique.
Paper 5 Group I A- (Sales Management)	**C01:** Aware of sales management and policies related to sales **C02:** Able to knowledge about recruitment, selection and training of sales personnel. **C03:** Have knowledge about controlling sales efforts. **C04:** Able to knowledge about international sales management.

	Co5: Knowledge about goals of sales organization factor influencing sales.
Paper 5 Group II A-(Principle of General Insurance)	**C01:** Aware of Marine and Fire insurance **C02:** Have knowledge about Agent and Branch Manager related to insurance. **C03:** Able to differentiate between life insurance and general insurance. **C04:** Gain ability of calculation of premium related to marine and fire insurance. **Co5:** Understanding concept of insurance laps and objection of insurance.
Paper 5 Group III A- (Consumer Behavior)	**C01:** Have knowledge about consumer behaviour. **C02:** Able to knowledge about personality, perception related to consumer. **C03:** Aware of model related to consumer attitude. **Co4:** Understanding concept of consumer research. **Co5:** Knowledge about theory of learning.
Paper 5 Group IV A- (Finance of Micro Small and Medium Enterprise)	**C01:** Aware of MSME act 2006. **C02:** Able to knowledge about credit risk management of MSME. **C03:** Have knowledge about cluster development program. **C04:** Able to knowledge about technology related to MSME. **Co5:** Providing knowledge of institutional framework.
Paper 6 Group I B- (Foreign Trade)	**C01:** Able to knowledge related to foreign trade policy. **C02:** Able to differentiate between balance of trade and balance of payment. **C03:** Aware of fixing of quotation of foreign price. **C04:** Have knowledge about EXIM policy. **Co5:** Able to understand support documentation, foreign payment terms.
Paper 6 Group II B- (Indian Banking System)	**C01:** Able to knowledge about Bank. **C02:** Aware of Electronic banking. **C03:** Have knowledge about NABARD. **C04:** Able to knowledge about central bank (RBI). **Co5:** Understanding of Indian Banking Legislation.
Paper 6 Group III B- (Labour Law)	**C01:** An expertise and able to understand factory act 1948. **C02:** Have knowledge about industrial disputes act 1947, wages payment act 1936. **C03:** Able to knowledge about minimum wages act 1948. **C04:** An expertise and able to understand the apprentices act 1961. **Co5:** Having knowledge about payment of wages Act, 1936.
Paper 6 Group IV B- (Working	**C01:** Able to understand the importance of working capital management.

Capital Management)	**C02:** Aware of cost of capital, capital budgeting, and leverage. **C03:** Have knowledge about cash management, receivable Management and inventory management. **Co4:** Knowledge of theories of capitalization. **Co5:** Understanding the concept of capital structure and theories.
Environmental studies	**C01:** Able to express his views on the course orally. **C02:** Aware of the environmental problem and solution. **Co3:** Awareness about Green House Gas and Ozone deputation. **Co4:** Having knowledge about kyatoprotocal, sustainable development goal. **Co5:** Awareness about various environment Act
Viva Voce	**C01:** Awareness about discipline. **Co2:** Knowledge of principle of accounting. **Co3:** Knowledge of basic statistics. **Co4:** Understanding of taxation. **Co5:** Knowledge of specialization subject.

M.Com.

Programme Outcome (POs)

PO1	The student will develop an ability to apply the knowledge in problem solving and analysis of various societal economic problems.
PO2	The Student will develop to skills for working like team, leadership and managerial and administrative skills.
PO3	Students can go further for opting wide range of professional Courses like CA/CS/CMA/CFA or research.
PO4	The student will ba able to apply the knowledge in practical use of various theories of commerce in business.
PO5	The student will develop ability to work in team with enhance interpersonal skill and communication.

Programme Specific Outcome (PSOs)

PSO1	The student will gain ability to make practical use of Management accounting in decision making.
PSO2	The student will gain ability to make practical use of various economic theories in decision making.
PSO3	The student will be able to develop understanding about the organizational behaviour and its management.
PSO4	The student will be able to Inculcate the knowledge of business and the techniques of managing the Business with special focus on Accounting, finance, and financial services.
PSO5	The student will be able to identify knowledge based accounting principles and the latest application oriented corporate accounting methods.
PSO6	The student will be able to develop decision-making skill through costing methods and practical application of management accounting principles.

PSO7 The student will be able to enhance taxation skills through a thorough understanding of tax laws.

Course Outcome
M.Com. 1st Semester

After completion of the course the student will :-

Paper 1 (Management Accounting: Theory and Practice)	**C01:** Have knowledge about management accounting thought in Brief. **C02:** Able to understand financial statement analysis and cash flow and fund flow statement in depth. **C03:** Aware of budget and budgetary control technique for managerial decision. **C04:** Able to understand cost volume profit ratio. **C05:** Able to knowledge about variance analysis for controlling in management.
Paper 2 (Managerial Economics)	**C01:** Able to apply the concept, tools and techniques of economics in analyzing and interpreting managerial decision. **C02:** Have knowledge about business cycle and inflation and Deflation. **C03:** Able to understand the business risk and uncertainty. **C04:** Have knowledge about to fixation of price and its effect on market. **C05:** Aware of managerial economic theories and consumer choice theory in brief.
Paper 3 (Organizational Behavior and Management)	**C01:** Able to work in teams with enhance interpersonal skill and communication. **C02:** Able to understand the conceptual framework of management and organizational behavior. **C03:** Aware of different types of organization structure and forms. **C04:** Have knowledge about different theories related to personality, learning and motivation. **C05:** Able to understand about the control of organization.
Paper 4 (Marketing Management)	**C01:** Able to start their own business. **C02:** Have knowledge about marketing research in brief. **C03:** Having knowledge about product and new product development. **C04:** Able to understand various kinds of advertismenet. **C05:** Able to understand channels of distribution in depth.
Paper 5 (Indian Culture and Tourism Management)	**C01:** Able understand conceptual knowledge of Indian culture. **C02:** Aware of tourism industries. **C03:** Able to understand various place of tourism management. **C04:** Having knowledge about growth and development of modern toursims. **C05:** Able to start earning from tourism management.
Paper 6 (E-Commerce)	**C01:** Able to start their business at online culture. **C02:** Aware of IT act 2000 and cybercrime. **C03:** Able to understand online business transactions in brief.

	C04: Having knowledge about various technologies use in E-Commerce. **C05:** Have knowledge about E-Commerce business models in depth.

Course Outcome
M.Com. 2nd Semester

After completion of the course the student will :-

Paper 1 (Advanced Corporate Accounting)	**C01:** Able to understand the conceptual knowledge of corporate accounting and understand Indian company act 2013. **C02:** Aware of provision related to accounting of amalgamation of Companies as per accounting standard 14 in brief. **C03:** Having knowledge about accounting of banking companies. **C04:** Able to understand the accounting of various government sector enterprises. **C05:** Have knowledge about valuation of share and goodwill in depth.
Paper 2 (Human Resource Management)	**C01:** Able to understand the conceptual knowledge about human resource management. **C02:** Have knowledge about succession planning and career Development in brief. **C03:** Able to understand the process of recruitment and selection. **C04:** Aware of management of human relationship. **C05:** Able to knowledge about performance appraisal and human resource audit and research.
Paper 3 (Economic Environment)	**C01:** Able to understand business environment and economic environment in details. **C02:** Aware of role of government in economic development. **C03:** Have knowledge about international economic institutions in Depth. **C04:** Able to understand monetary policy and fiscal policy. **C05:** Aware of five year plan and NITI Aayog in brief.
Paper-4 ELECTIVE (a)Production Management	**C01:** Aware of conceptual knowledge about production management. **C02:** Able to understand plant location and plant layout in brief. **C03:** Aware of various provisions related to production control. **C04:** Having knowledge about product design. **C05:** Have knowledge about production information system.
Paper-4 ELECTIVE (b)Security Analysis and Portfolio Management	**C01:** Have knowledge related to theory and management of Investment. **C02:** Able to understand the relationship of risk and return. **C03:** Aware of capital market theories and stock exchange in depth. **C04:** Having knowledge about portfolio management. **C05:** Able to differentiate between primary and secondary market.
Paper-4	**C01:** Have conceptual knowledge of insurance.

ELECTIVE (c)Principles of Insurance	**C02:** Able to differentiate between life insurance and general insurance. **C03:** Aware of different rules related to life insurance, fire insurance and marine insurance. **C04:** Able to understand the various policy conditions in life innsurnce. **C05:** Able to understand claim settlement under marine losses and fire losses.
Paper 5 (Disaster and Risk Management)	**C01:** Have knowledge about disaster and risk management. **C02:** Aware of role of government in disaster risk management in brief. **C03:** Having knowledge about man made disaster. **C04:** aware of global disaster trends. **C05:** Able to understand disaster management policy in depth.
Paper 6 (Indian Economy)	**C01:** Able to knowledge about nature, structure, growth and composition of economy in depth. **C02:** Have knowledge about agriculture in India. **C03:** Aware of population policy in India. **C04:** Having knowledge about problems related to poverty in India. **C05:** Able to understand industrial development in India.

Course Outcome
M.Com. 3rdSemester

After completion of the course the student will :-

Paper 1 (Statistical Analysis)	**C01:** Able to use various statistical tools for the analysis of economic and business data. **C02:** Able to differentiate between correlation and regression. **C03:** Have knowledge about probability theories. **C04:** Able to understand statistical quality control. **C05:** Aware of time series analysis and Interpolation and Extrapolation in depth.
Paper 2 (Managerial Finance)	**C01:** Aware of conceptual knowledge of managerial finance. **C02:** Have knowledge about working capital management in brief. **C03:** Able to calculate cost of capital and bonds and share value. **C04:** Aware of various theories related to dividend policy. **C05:** Able to understand management of cash in depth.
Paper 3 (Fundamental of Entrepreneurship)	**C01:** Able to knowledge about entrepreneurial culture and industrial Growth in brief. **C02:** Able to understand external environment of business in depth. **C03:** Have knowledge about social responsibility of entrepreneurship. **C04:** Able to understand about promotion of venture. **C05:** Aware of entrepreneurial development programmers (EDP) in brief.
Paper-4	**C01:** Able to familiarize with process of management of sales and

ELECTIVE (a)Sales and Advertisement Management	advertisement **C02:** Aware of depth knowledge of sales force management. **C03:** Aware of various process of sales forecasting and planning related to sales. **C04:** Able to understand setting a budget related to advertising. **C05:** Have knowledge about selling process in brief.
Paper-4 ELECTIVE (b)Mutual Fund Investment Analysis	**C01:** Able to understand basic and working knowledge about mutual fund. **C02:** Aware of mutual fund investment schemes. **C03:** Having the knowledge about growth of funds. **C04:** Able to understand diversified debts funds and high yield debts funds. **C05:** Able to comparison of mutual fund investment with other Options.
Paper-4 ELECTIVE (c)Insurance and Risk Management	**C01:** Having knowledge about insurance salesmanship in depth. **C02:** Able to understand conceptual knowledge of insurance. **C03:** Having knowledge about insurance and risk management. **C04:** Aware of various method of supervision and motivation. **C05:** Aware of different person related to insurance (Branch Manager, development officer, insurance agent)
Paper 5 (Women Empowerment and Entrepreneurship)	**C01:** Able to understand knowledge about women empowerment. **C02:** Aware of theories of development of women in brief. **C03:** Aware of constitutional and other legal provision for women Empowerment. **C04:** Having knowledge about gender discrimination. **C05:** Able to knowledge about social welfare programme related to women empowerment in brief.
Paper 6 (Rural and Agricultural Marketing)	**C01:** Aware of knowledge about rural and agriculture marketing. **C02:** able to understand steps of selection of rural product. **C03:** Having knowledge about standardization, branding and labeling related to product. **C04:** Able to understand product planning for rural market in depth. **C05:** Have knowledge about promotion of agricultural product.

Course Outcome
M.Com. 4thSemester

After completion of the course the student will :-

Paper 1 (Cost Analysis)	**C01:** Able to understand basic concept and the tools used in cost accounting. **C02:** Aware of brief knowledge of material control and machine hours rate. **C03:** Having knowledge of cost audit and cost record. **C04:** Able to understand costing method of equivalent production. **C05:** Able to knowledge of integrated account and nonintegrated account in depth.
Paper 2 (Research Methodology)	**C01:** Aware of basic understanding of research methodology. **C02:** Able to understand the application of modern tools of analysis and interpretation of data.

	C03: Have knowledge about research design and method of research. **C04:** Having knowledge about hypothesis testing. **C05:** Able to understand the method of data collection and hypothesis testing.
Paper 3 (Indian Direct Tax Systems)	**C01:** Aware of conceptual knowledge of Indian direct tax and understanding of income tax law. **C02:** Having knowledge about residence and tax liability. **C03:** Able to understand assessment of individual and computation of tax liability of individual. **C04:** Aware of various types of process of assessment. **C05:** Able to understand assessment of individual, Hindu undivided family and firm.
Paper-4 ELECTIVE (a)Labour Problem and Social Security	**C01:** Able to understand the conceptual knowledge of reforms of the labour and their social security measures. **C02:** Aware of international labour organization (ILO) **C03:** Able to understand unemployment insurance process. **C04:** Aware of employees provident fund act 1952. **C05:** Have knowledge about labour welfare in brief.
Paper-4 ELECTIVE (b)International Economics	**C01:** Aware of knowledge about theory and practices of international business. **C02:** Able to understand various theories related to foreign exchange rate in brief. **C03:** Aware of export and import policy of India. **C04:** Aware of foreign exchange rate . **C05:** Have knowledge about instrument of export promotion.
Paper-4 ELECTIVE (c)Indian Financial System	**C01:** Able to comprehensive knowledge about Indian financial system. **C02:** Aware of financial institutions (IDBI, UTI, LIC, IFCI, SFCS, SIDCS, EXIM BANK) **C03:** Having knowledge about monetary policy. **C04:** Aware with security contract and regulation act. **C05:** Have knowledge about roles of SEBI guideline.
Paper 5 (Self Employment and Entrepreneurship)	**C01:** Able to understand principles of entrepreneurship. **C02:** Aware of basic problem of management of small business units with special reference to India. **C03:** Having knowledge about creativity and innovation. **C04:** Aware of role of government related to entrepreneurship development. **C05:** Have knowledge about rural entrepreneurship in depth.
Paper 6 (Public Finance and Taxation)	**C01:** Able to knowledge about public finance. **C02:** Have knowledge about budgetary system in India in brief. **C03:** Aware of various source of public expenditure. **C04:** Able to understand public revenue. **C05:** Aware of indirect tax system and GST.

Faculty of Law

LL.B.

Programme Outcome (POs)

PO1 **Professionalism:**Students will learn the underlying values and professional and ethical standards of conduct in the legal profession.

PO2 Skills of Advocacy and drafting: Students will be equipped in skills of advocacy and client counselling will also be equipped in legal drafting.

PO3 Legal & Critical Thinking: The programme will inculcate analytical thinking in students and develop legal perspective on social issues

PO4 Problem Solving Skills: Students will be able to solve socio-legal problem through the application of law and legal concepts.

Programme Specific Outcome (PSOs)

PSO 1 Familiarizingstudentswithbasiclawsandjudicialinterpretationsatthenationalandinternational level.

PSO 2 Promotingethical practices in the profession of law and inter-disciplinaryapproach to legal profession.

PSO 3 Apprisingstudents of thelegal system, rule of law, administration of justice and impartingprofessionallyand sociallyrelevancy of legal education.

PSO 4 Sensitizing students towards the issues of access to justice of thedeprived, marginalized and weaker sections of society.

PSO 5 Producing internationallycompetent litigatinglawyers, corporate lawyers, judges,judicial officers, legal officers, researchers, law reformers, law teachers, etc.

PSO 6 Impartingskillsoflegalreasoning,problemsolving,research,legalwriting,oralandwrittencommunication, persuasion,leadership and teamwork.

Course Outcome

Semester-I

After completion of the Course, the student :

Paper-I Jurisprudence-I (Legal Method)	CO1: Students will be acquainted with the basic ideas and fundamental principles of Law in the given society. CO2: Knowledge of Law and Legal precepts will help the students to face exigencies of life boldly and courageously CO3: Students will be inculcated with standards of ideal for human conduct in terms of law for the maintenance of Public conscience. CO4: Students will be able to identify such pressing demand or problems which require solution within the parameters of the law, justice and other social norms.
Paper-II - Law of Contract	CO1: The system of formation and discharge of contracts in India and the role of courts in enforcing them. CO2: The concept of voluntarily created civil obligations. CO3: Synthesis of case laws, identification of issues, applicability of relevant provisions and critical analysis of the judicial decisions with reference to the Indian Contract Act, 1872, the Specific Relief Act, 1963, the Indian Majority Act, 1875, and the Information Technology Act, 2000. CO4: Tracing the existing legal framework through latest Judgments and applicability of provisions in the evolving as well as technological driven society.
Paper-III - Law of Torts	CO1: Read, interpret and apply the Law of Torts in Indian and international context. CO2: Apply their knowledge to solve factual situations under tort law and support them with logical arguments. CO3: Practice in this area in the law courts/consumer fora. CO4: Write research papers/notes, case comments and work in research houses.

Paper-IV - Law of Crimes- I: Indian Penal Code	CO1: The students should be able to identify the concept of criminal liability as distinguished from the civil liability. CO2. Identify the elements of crime in given factual situations entailing culpability. CO3. Be familiar with the range of Specific Offences (Bodily offences and Property offences)
Paper-V Family Law-I	CO1: Students will be able to know mutual rights and duties in law in the personal sphere of family. CO2. Students will be enlightened, through case law, about the interpretation of statutory law by judiciary. CO3. Students will get exposure to legal institutions working for settlement of family disputes.

Semester-II

After completion of the Course:

Paper-I Law of Evidence	CO1: will acquire the knowledge of the basics of Law of evidence and develop an understanding of the law of evidence and its operation. CO2: To discuss the overview about the courts and various principles and provisions that govern the Law of Evidence. CO3: To contradict and contrast between the English law and the Indian law and the Adversarial and the Inquisitorial system of law CO4: To demonstrate a detailed knowledge of specific areas of current importance and to analyze the evolving nature of law of evidence. CO5: To ascertain and discuss the facts of complex legal problems including implementation of the involving question of Law of Evidence.
Paper-II Family Law – II	CO1: Exhibit conceptual understanding of tackling family law problems. CO2. Have adequate knowledge of relevant issues addressed by family law such as Hindu joint family, coparcenership, partition, succession of Hindu law and gift, will and inheritance of Muslim law. CO3. Be equipped with tools to critically analyse family law and ascertain its social impact. CO4. Be able to break down complex family law problems and come up with workable and welfare-enhancing solutions.
Paper-III Law of Crimes-II	CO1: will be acquainted with importance of criminal procedure and its indispensable attributes in a civilized society. CO2. Will be familiar with the powers, functions, and duties of police as one of the primary functionary of the criminal justice. CO3. Will be familiar with the stages of investigation and trial in criminal cases.
Paper-IV - Property Law	CO1: Exhibit conceptual understanding of the doctrines stipulated under the Transfer of Property Act, 1882. CO2. Have adequate knowledge regarding the modes of transfer of property including sale, mortgage, lease, gift etc. CO3. Be equipped with tools to critically analyse property law and ascertain its social impact. CO4. Be able to effectively apply the knowledge to built cohesive and logical arguments and solve practical problems.
Paper-V Public International Law	CO1: Understand the meaning of Public International Law, its legal basis and its position vis-à-vis the Indian legal system; CO2: Distinguish between various sources of Public International Law and their respective use in any given dispute involving questions of law; CO3: Understand the relationship between Public International Law and the national legal system with special emphasis on India CO4: Understand and reflect upon the jurisprudential doctrines and law related

	to the principle of State Responsibility, Law of the Sea, State Jurisdiction, Diplomatic and Consular Immunities; and CO5: Appreciate the International Human Rights instruments and institutions laying down human rights standards and India's position on protection of human rights.

Semester-III

After completion of the Course:

Paper-I Constitutional Law-I	CO1: The principal aim of the outcome of this course is that the students should be able to attain factual and theoretical knowledge and develop critical analytical thinking and articulation particularly on the following topics CO2: Nature of the Indian Constitution, theory of Basic Structure of the Constitution and the Indian federalism; CO3: Power to cede Indian territory to a foreign State, power to create and extinguish a State, alteration of name, area and boundary of existing States; CO4: Working of the three organs of the State; The President/Governor and the Council of Ministers; Legislative procedures and Privileges; Judicial review of Ordinances; The independence of judiciary and the appointment and transfer of Judges of Constitutional Courts; Distribution of legislative powers between the Centre and the State;
Paper-II Company Law	CO1: To critically evaluate the existing legal framework relating to company and regulatory framework of companies in accordance with the Companies Act, 2013 including the Companies (Amendment) Act, 2017. CO2: To demonstrate a detailed knowledge of specific areas of current importance and to appreciate the evolving nature of company law. CO3: Enable the development of critical and analytical abilities in the area of Company Law, culminating into a presentation during the class sessions of the course. CO4: Familiar with the current policy trends and developments in Company Law in India, UK and USA and of the likely impact of these trends and developments on the major topics in Company Law. CO5: Describe the theoretical assumptions that underlie the way companies are regulated in India and the way changes to those assumptions might result in law reform. CO6: Identify and articulate complex legal issues that arise in business practice and demonstrate advanced analysis of statutory provisions and case-law; sophisticated
Paper-III Special Contracts	CO1: able to Demonstrate advanced understanding of the underlying legal principles, rules and institutions which regulate partnership/ contracts, agreement. CO2: will understand seller and buyer rights and also duties and partnership rights and duties. CO3: Know the rationale behind the formation of partnership agreements, limited liability partnerships and appreciate their contribution to laws in organizations.
Paper-IV Moot Court Exercise and Internship	CO1: practice at all the stages of any case/matter and at all the fora with critical thinking CO2. will be able to do appellate advocacy by independent research, preparation of arguments and presenting arguments in a persuasive manner in appellate courts CO3. Able to do trial advocacy, i.e., case analysis, client interviewing and advise,

	how to conduct examination–in-chief and cross-examination of witnesses, preparation and presentation of arguments on facts and law in the trial courts. CO4. Interview clients and advise them on procedural aspects of litigation, costs and possible legal and social consequences, etc. CO5. To work in teams and develop the cooperative nature essential for the legal practice.

Semester-IV

After completion of the Course, the student:

Paper-I **Constitutional Law – II**	CO1: will Understand the jurisprudence of Constitutional Law and its relationship with politics, society and economy. CO2: will acquire comprehensive understanding of the complex relation among impact of liberalization, Role of State and the significance and utility of the Fundamental Rights, Directive Principles of State Policy and Fundamental Duties. CO3: will acquire Understanding of the basic constitutional mandates on secularism socialism, judicial review, and rule of law, equality, liberty, social justice and economic justice. CO4: Adapt appropriate methods of analysis and interpretation of the constitutional provisions and application of Doctrines evolved by the judiciary while interpreting constitution. CO5: will be prepared for their constructive participation in justice system and to grow
Paper-II **Administrative Law**	CO1: will be able to Explain the foundational concepts and basic principles of administrative law. CO2: will be able to Apply their knowledge to solve factual situations relating to administrative law and support them with logical arguments. CO3: will acquire an ability to Write research papers/notes and case comments and work in research houses. CO4: will be able to Make appropriate administrative choices CO5: Practice in this area in the law courts/tribunals
Paper-III **Alternative Dispute Resolution**	CO1: will be able to Describe, analyse and apply the substantive rules of ADR CO2. Will be able to Choose appropriate ADR,Communicate effectively, Draw functional, legal settlement agreements, Choose appropriate negotiation strategy , Practice Mediator's skills and Solve the ethical dilemmas .

	CO3: will be able toIdentify the relationship between present justice delivery system and various ADR mechanism and the growing dependence on the ADR process CO4:willDevelop the understanding of the rules and principles operating the domestic arbitration, international arbitration in India and issues related thereto; CO5. Will be able to Apply various alternative dispute resolving techniques and their application through negotiation, meditation, lok-adalats and other ADR forums. To give overview to the students and enhance their understanding that how ADR can be used in to the specific kinds of disputes i.e. Matrimonial Disputes, Intellectual Property Right, Business disputes etc .
Paper-IV **Labour Law**	CO1: will be able to demonstrate an advanced understanding of the underlying legal principles, rules and institutions which regulate employer employee relationship in Indian industrial law. CO2. Will have Increased intellectual understanding of students of labor law and individual employment rights, both in terms of black letter law and public policy as a labor lawyer. CO3: will have Developed understanding of rationale behind the formation of Trade Unions and their working and appreciate their contribution to labour laws in organizations.

Semester-V

After completion of the Course, the student:

Paper-I **Code of Civil Procedure and Limitation Act**	CO1:The students will become well versed with the basic keywords used frequently in the civil courts such as plaint, written statement, summons, plaintiff, defendant, judgement, decree, and so on. CO2:The students would be able to locate the jurisdiction of the various civil courts after reading this subject by knowing the various jurisdictions that are there at every level as per the hierarchy of civil courts. CO3:Since this subject is taught to second year students, they would be better equipped to deal with the papers like Moot Court, ADR, Professional Ethics etc. which are being taught in the final year.
Paper-II **Drafting, Pleadings and Conveyancing**	CO1:Apply fundamental/golden rules of Pleadings and Conveyancing while drafting. CO2:Recall and apply the provisions of specific statute while drafting any petition/application under the said statute. CO3:Drafting of civil pleadings, criminal pleadings, matrimonial pleadings and constitutional pleadings. CO4:Comprehend the pleadings and prepare written replies for

	the same. CO5:Draft notices for their clients under various statutes and replies to the notices. Draft deeds and agreements.
Paper-III **Industrial Law**	CO1:The student must be able to comprehend the categorisation of different labour legislation along with their full understanding and should have clarity as to how various legislations are in sync with the constitutional provisions of the country. CO2:Understand the precisely the dispute settlement mechanisms in the Industrial Disputes Act, 1947 and working of various machineries. CO3:Differentiate between the concept of social justice and general justice to appreciate the aims, objectives, interpretations and application of various social security legislations.

Semester-Vl

After completion of the Course, the student:

Paper-I **Professional Ethics and Accounting System**	The students will be able to: CO1:Identify situations of professional dilemmas and of contempt. CO2:Take appropriate decisions when faced with any professional dilemma. CO3:Recall and apply the principles of professional ethics in their professional life. CO4:Interview and counsel clients in a professional manner. Apply the basic principles of professional accountancy.
Paper-II **Environmental Law**	CO1:Acquire the ability to evaluate the role of law and policy in conservation and management of natural resources and prevention of pollution. CO2:Acquire an overview of the major environmental statutes as well as relevant common law doctrines. CO3:Develop understanding of the variety of regulatory techniques that have been applied to deal with environmental problems and the attributes, advantages and disadvantages of each.
Paper-III **Principles of Taxation Law**	The following are the expected outcome of this Course. At the end of the Course, students shallbe able to – CO1:understand the basic concepts of taxation, the background, the general scheme of direct tax and interpretation of different provisions of the Income Tax Act; CO2:compute the tax liability of an individual; CO3:deal with court cases pertaining to tax; CO4:file income tax return

(ELECTIVE COURSES):-

Semester-lll

After completion of the Course, the student:

Law of International Institutions	Students who have successfully completed this course will be able to: CO1:Apply the applicable international law in relation to selected international institutions. CO2:Comprehend the role, function and structure of prominent IOs, and their utility within the international legal system. CO3:Explain the decision making process within prominent IOs. CO4:Analyse the problems in relation to the working of IOs and appropriate dispute resolution mechanism for resolving disputes between IOs and member states, and between IOs.
Legal Philosophy including theory of Justice Course	After successful completion of this Course, students should be able to: CO1: Have a deep knowledge of basic concepts in Legal Philosophy including Theory of Justice and to explain them in the legal field from a critical approach. CO2: Identify the strengths and limitations of different theories and models in explaining the concepts like Law, Morality, Justice, Equality and Liberty and to develop the capacity to engage in lifelong learning. CO3: Apply their specialist knowledge, skills and creativity to get the practical and appropriate solutions of legal problems. CO4: Understand the relation between law and morality which is basis of any legal systemand how the law serves social purpose. CO5: Expertise this analytical skill in critically analysing the concept of justice and its applicability in India to remove various evil practices in societywith the help of our Constitution and Indian Thought e.g. Gandhian Concept of Justice.

Semester-lV

After completion of the Course, the student:

Interpretation of Statutes	Students who have successfully completed this course will be able to: CO1:They should be able to identify the legislative intent and further it. CO2:They should be able to understand and read any statute which they may not have studied in the LL.B course. CO3:They should be in a position to apply various rules of interpretation to substantiate their argument and convince the judge in the court of law. CO4:Apply the rules of interpretation in course of their profession as a lawyer or as a judge CO5:Uncover the rule of interpretation on which the judgment of Judge on particular issue is based Criticize the judgments on the basis of rule of interpretation Provide a new interpretation of law by using various rules of interpretation in various facts and circumstances.
Humanitarian Law and	At the end of the course, the student will be able to apply and understand humanitarian law and the institutional structure for its implementation. This apart, it will sensitize and enable them to examine the problems of human rights

Refugee Law	in times of conflict and issues relating to refugees, the reasoning for inclusion, exclusion, cessation and nonrefoulment and denial of refugee law in India.

Semester-V

After completion of the Course, the student:

Information Technology Law	At the end of this paper, the students should be able to learntheorical concepts, its practical applicability and understanding of gaps in existing legislation. The students learn: i) The provisions of the Information Technology Act, 2000 in relation to e-commerce, egovernance and cybercrimes ii) The application of other laws viz. jurisdiction, contract and Trade mark to cyberspace iii) Synthesis of case laws, identification of issues, applicability of relevant provisions and critical analysis of the judicial decisions with reference to the Information Technology Act. iv) The gaps in the existing legal framework and countering these challenges thrown up by ever changing technological developments.
Criminology	At the end of the course the student will be able to - 1. Understand the role played by criminology in framing of criminal policy and penal laws. 2. Analyse the different perspectives of crime and models of crime control. 3. Exhibit conceptual understanding of the various theories of crime causation and apply them to varied crime situations vis-à-vis crime and the criminal. 4. Comprehend the therapeutic approach in criminal justice administration and appreciate the functional value of penal laws. 5. Assess the Indian Police system and Indian Prison system in the present scenario and suggest the way forward. 6. Evaluate the working of the criminal justice system and point out the problem areas in need of reforms.
International Trade Law	Students who have successfully completed this course will be able: 1. To identify the key international agreements covered under the GATT/WTO multilateral trading framework 2. To analyse and examine the several key areas of international trade law including trade in goods, services, technical barriers to trade, dumping, anti-Dumping, subsidies and countervailing measures etc. 3. To identify and explain the procedure of decision making and dispute resolution under WTO 4. To apply skills, both orally and in writing, in the construction of legal argument and analysis on issues of international trade law.
Intellectual Property Rights Law – I	At the end of this paper, the students should be able to learn theoretical concepts of evolution of Intellectual Property Laws vis a vis the international development, the emergence of different branches of Intellectual Property Laws. The students learn (i) the legal basis of the IPL and its impact in economic, social and technological context (ii) Synthesis of case laws, identification of issues, applicability of relevant provisions and critical analysis of the judicial decisions with reference to the Trade Marks Act, 1999, Geographical Indications Act, 1999 and Designs Act 2000 Tracing the existing legal framework through latest Judgments and applicability

	of provisions in the evolving as well as technological driven society.

Semester-Vl

After completion of the Course, the student:

Intellectual Property Rights Law – II	At the end of this course, students will be able to: • Understand the implications of IP Regime in social, economic and technological context. • Synthesize the case laws, relevant provisions and critical analysis of the judicial decisions with reference to the Copyright Act, 1957 and Patents Act, 1970. • Trace the existing legal framework through latest Judgments and applicability of provisions in the evolving as well as technological driven society. Analyse the importance of protection of plant varieties, integrated circuits, trade secrets and traditional knowledge.
Election Laws	(List of outcomes in terms of learnings which student will be able to acquire due to this course) On successful completion of this Course the students will be able to: Identify the laws relating to elections to the Parliament, State Legislatures and to the offices of the President and Vice President of India. Explain the qualifications and disqualifications for Members of Parliament and State Legislatures in India. Recognise the corrupt practices that candidates often resort to in order to win elections to the Legislatures in India. Know the ambit of the right of voters to know the antecedents of candidates at elections to Legislatures in India.
Internationl Investment Law	At the end of this course, the Students will be able to: 1. Understand and explain the elements of BITs and the policy considerations underlying the formation of such treaties. 2. Apply the knowledge of the issues arising out of international investment agreements in front of the municipal courts of law. 3. Represent their clients – foreign investors/host States in international arbitrations involving issues of international investment law. 4. Provide legal opinions on the issues involving international investment law either the private foreign investors or the host States. Demonstrate (both orally and in written) a detailed understanding of various aspects of investment treaties and their linkage with investor protection and the regulatory discretion of the sovereign countries.
Competition Law	By the conclusion of this course, it is intended that students will able: 1. To identify and explain the founding principles of Indian Competition Law. 2. To understand the types of behavior and the market circumstances that invoke competition law and policy. 3. To demonstrate a detailed knowledge of specific areas of current importance and to appreciate the evolving nature of competition law. To ascertain and evaluate the facts of complex legal problem involving question of competition law.

OPEN ELECTIVES:-

Semester-lll

After completion of the Course, the student:

White-Collar	After successful completion of this Course, students should be able to: 1. Learn a new kind of criminality, its nature and its basic concepts that are required for its better understanding and about the difference between

Crime and Economic Offences	this criminality and other kinds of criminalities. 2. Know about the history and the evolution of the White-Collar crimes and Economic offences with the help of different approaches taken by eminent criminologists/jurists in this regard for the better understanding of the need, purpose and urgency of enacting these laws. 3. Have knowledge of emergent areas of this criminality with special reference to Corruption, Money Laundering and NDPS offences. 4. Acquire expertise on the relevant legal mechanism which is different kind of investigation and trial of these cases and enforcement procedure specially required for combating such type of crimes. Acquire the analytical skill in analysing provisions of various Special Statutes in this area of law and can use their knowledge and skills on the subject to build a just and human society.
Computer Application in Legal Studies	**CO1:** Will understand the usage of Internet/Web services as a resource for learning and discovery. **CO2:** The provisions of the Information Technology Act, 2000 in relation to e-commerce, e-governance and cybercrimes. **CO3:** Synthesis of case laws, identification of issues, applicability of relevant provisions and critical analysis of the judicial decisions with reference to the Information Technology Act. **CO4:** The gaps in the existing legal framework and countering these challenges thrown up by ever changing technological developments. **CO5:** The application of other laws viz. jurisdiction, contract and Trade mark to cyberspace.

Semester-lV

After completion of the Course, the student:

Biotechnology and Law	After the completion of the course, the students will be able to: 1. Comprehend the basic understanding of interdisciplinary complexities involved in biotechnological invention. 2. Defend or criticise the certain issues on the ground of morality or theological basis. Protect the private right of individual as well as public interest if affecting issues are biotechnological. 3. Protect the rights of farmers, patient, consumer and other person in cases of issues relating to genetically modified plant, food and misuse of genetic information etc. 4. Provide valuable suggestions on various issues and related draft policy, proposal or Bill etc. 5. Work with NGO, with deep understanding of the issues and may provide consultation to the parties.
Gender Justice	**At the end of the semester the students will be able to: -** 1. Know the meaning of LGBTQIH 2. Identify the issues of the Third Gender and other sexual minorities 3. Critically evaluate international and national laws and judicial decisions regarding gender rights Empathise with third gender and LGBTQIH community persons

Semester-V

After completion of the Course, the student:

Jurisprudence - II	*After successful completion of this Course, students should be able to:* 1. Have a deep knowledge of basic concepts in jurisprudence and to explain them in the legal field from a critical approach. 2. Identify the strengths and limitations of different theories and models in explaining the basics of Law and to develop the capacity to engage in lifelong learning. 3. Apply their specialist knowledge, skills and creativity to get the practical and appropriate solutions of legal problems. 4. Differentiate properly among various look alike concepts and used them appropriately wherever required. 5. Expertise this analytical skill in critically analysing different type of Laws in case of any confusion and to provide a strong basis for their legal opinion.
Law and Development	At the end of the course, it is expected that the students shall – 1. Be aware of the different perspectives of development and have fair knowledge about the theories of development. 2. To understand how law can be used as a tool to ensure that the fruits of development reaches the poor and marginalized 3. Would be enabled to critique developmental policy or projects proposals. 4. Would be able to advise and assist PSUs and private companies to see to it that the benefit of development reaches the socio-economically weaker sections. 5. Would be able to advocate for and advise the development affected people and file petitions before the court for the sake of socio-economic justice for them.

B.A. LL.B.	
Programme Outcome (POs)	
PO1	**Professionalism:**Students will learn the underlying values and professional and ethical standards of conduct in the legal profession.
PO2	**Skills of Advocacy and drafting:** Students will be equipped in skills of advocacy and client counselling will also be equipped in legal drafting.
PO3	**Legal & Critical Thinking:** The programme will inculcate analytical thinking in students and develop legal perspective on social issues
PO4	**Problem Solving Skills:** Students will be able to solve socio-legal problem through the application of law and legal concepts.
Programme Specific Outcome (PSOs)	
PSO1	Familiarizing students with basic laws and judicial interpretations at the national and international level
PSO2	Sensitizing students towards the issues of access to justice the deprived, marginalized and weaker sections of society.
PSO3	Apprising students of the legal system, rule of law, and administration of justice.
PSO4	Imparting skills of legal reasoning, legal writing, oral and written communication, persuasion, leadership and teamwork.
PSO5	have professional skills for litigation.

PSO6	be able to represent the interest of the clients in a professional and ethical manner.
PSO7	acquire the knowledge of social sciences for better appreciation of legal systems.
PSO8	be able to comprehend and understand the socio-legal issues.
PSO9	will develop sound legal reasonong and argumentative skills.
PSO10	Inculcate Research Skills.
PSO11	Will be able to work as social activist.
PSO12	develop critical thinking and will be able to present arguments in a logical manner.

Course Outcome [BA LL.B.]

Semester-I

After completion of this Course, the student :

Paper-I GeneralEnglish–I	**CO1:** Identify deviant use of English both in written and spoken forms. **CO2:** Write simple sentences without committing errors of spelling and grammar. **CO3:**Develop an interest for reading and understand the importance of reading for life. **CO4:** Understand and appreciate English spoken by people from different regions. **CO5:** Write simple sentences without committing errors of spelling and grammar and recognize the errors of usage and correct them.
Paper-2 PoliticalScience–I	**CO1:** Political Thought is an introductory paper to political theory principles, ideas, and theories. **CO2:** Students should be able to make political inquiries which introduced them to the disciplines, concepts and scientific methods of political science. **CO3:** The student will come to know about the ideas of individual sages and philosophers on politics and functioning of government. **CO4:** They will be able to interlink the themes on the functioning of the Monarchy and its relationship with the people taking the cue from the ideas of individual thinkers.

	CO5: Students should be able to understand the actual and real functioning of the Indian Parliament, Indian Government and Local Self-Government.
Paper–3 SOCIOLOGY-I(GENERALPRINCIPLES)	**CO1:** Demonstrate how Sociology differ from and similar to other social sciences and their areas of interdependence. **CO2:** Realize the importance of cultural lag to understand social change and explain social change and the factors affecting social change. **CO3:** Acquaint themselves with the basic concepts of Sociology like society, community, association, culture, social change, social stratification etc. **CO4:** Know the basic social institutions like family, marriage, kinship in a scientific way. **CO5:** Understand and demonstrate how self develops through various process of interaction. Demonstrate how societal and structural factors influence individual behavior.
Paper-4 Economics–I(GeneralPrinciples)	**CO1:** To familiarize the student with the study of his economy, allowing him to participate in the execution of various economic changes. **CO2:** Students will be able to understand the relationships between home behavior and demand economic models. **CO3:** to acquaint the student with the study of his economy thereby facilitating his participation in the implementation of various economic reforms. **CO4:** Student will be able to understand the links between household behavior and the economic models of demand. **CO5:** Students will be able to evaluate the consequences of economic activities and institutions for individual and social welfare.
Paper-5	**CO1:** Read, interpret and apply the Law of

LawofTortsincludingMotorVehicle AccidentandConsumerProtectionAct	Torts in Indian and international context. **CO2:** Apply their knowledge to solve factual situations under tort law and support them with logical arguments. **CO3:** To understand the principles of Tortious liability, the defences available in an action for torts as also to study specific torts against the individual and property. **CO4:** Students will understand that not all laws are codified, but that there are some that are judge made. **CO5:** Keeping in mind, the expensive character of judicial proceedings the students should reflect on the alternative forms, and also the remedies provided under the Consumer Protection Act, 1986.

B.A. LL.B.
Course Outcome
Semester-2

After completion of this Course, the student :

Paper-1 GeneralEnglish–II	**CO1:** Recognize their own ability to improve their own competence in using the language. **CO2:** Understanding, identifying, developing, and practicing essential English speaking skills in their legal studies and daily lives. **CO3:** Recognize their own ability to improve their own competence in using the language. **CO4:** Understand and appreciate English spoken by people from different regions. **CO5:** Use language for speaking with confidence in an intelligible and acceptable manner.
Paper-2 PoliticalScience–II	**CO1:** Students will be able to learn key concepts needed to understand the political phenomenon. They will come to know about the role and functions of Political theory. **CO2:** They will come to know how liberal and Marxist traditions look at and understand politics. They will learn what is power and how does it operate in society and politics. **CO3:** They will be able to explain the debates on the distributive theory of justice. **CO4:** They will come to understand and explain different theories and contemporary debates in democracy. **CO5:** This exam focuses on the Indian Government and Politics, allowing the student to concentrate on the political processes and real functioning of the political system.

Paper-3 Sociology–II(SociologyofIndia)	**CO1:** Explore the roots of Indian civilization. Know economy, polity and society of ancient, medieval and modern India. **CO2:** Understand and analyze the key concepts of Hinduism, Jainism, Buddhism, Islam and impact of these religions on society. **CO3:** Realize the basic issues of Indian society like unity in diversity, problems of nationalism and principles of Indian Constitution. **CO4:** Understand and analyze the areas of interrelations between India and South Asia. **CO5:** Demonstrate social, economic, political transformation of Indian society under colonial rule.
Paper-4 Economics–II(IndianEconomics)	**CO1:** Develop ideas of the basic characteristics of Indian economy, its potential on natural resources. **CO2:** Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development. **CO3:** It enables the student/learner to comprehend the relationship between supply and demand and how to achieve a balance between both. **CO4:** This research is critical to society since it will aid in the development of reforms and the analysis of the planning undertaken by the authorities in order to enact legislation. **CO5:** Critically examine and research complicated legal and legal theory challenges, and make reasoned and acceptable decisions among options.
Paper-5 LawofContract	**CO1:** The system of formation and discharge of contracts in India and the role of courts in enforcing them. **CO2:** The concept of voluntarily created civil obligations and to begin the process of being involved in partnerships, contracts, and situations, as well as to comprehend the remedies offered to a party in the event of a breach. **CO3:** Synthesis of case laws, identification of issues, applicability of relevant provisions and critical analysis of the judicial decisions with reference to the Indian Contract Act, 1872, the Specific Relief Act, 1963, the Indian Majority Act, 1875, and the Information Technology Act, 2000. **CO4:** Tracing the existing legal framework through latest Judgments and applicability of provisions in the evolving as well as technological driven society. **CO5:** Identify the important legal issues in the domain of contract law that arise from a particular collection of circumstances.
Paper-6 InternationalHumanRights	**CO1:** It will prepare a responsible citizenry by raising awareness of the relationship between human rights, democracy, and development, as well as encouraging respect for international obligations for peace and development; and it will provide education on the national and international human rights regimes.

	CO2: This apart, it will sensitize and enable them to examine the problems of human rights in times of conflict and issues relating to refugees, the reasoning for inclusion, exclusion, cessation and non-refoulment and denial of refugee law in India. **CO3:** Demonstrate knowledge and understanding of the international human rights framework, its origins and justifying theories. **CO4:** Demonstrate capacity to assess how specific human rights may be asserted, enforced or violated and critically evaluate the relationship between international and domestic law on human rights. **CO5:** At the end of the course, the student will be able to apply and understand humanitarian law and the institutional structure for its implementation.

B.A. LL.B.

Course Outcome

Semester-3

After completion of this Course, the student :

Paper-1 GeneralEnglish–III(IncludingLegalWriting)	**CO1:** Scan complex legal texts. Summarize information and reconstruct arguments in a coherent presentation. **CO2:** Produce organized and coherent communications and essays with clear paragraphs and appropriate methods for introducing and concluding. **CO3:** Produce well-supported communications and essays using different patterns of development taking into consideration purpose and audience. **CO4:** Persuasive speaking in meetings and negotiating, client counseling, writing formal letters, making in departmental presentations, understanding the language contracts , negotiable instruments is the basic pre-requisite of learning the course of special English. **CO5:** To know the various sources of law and to develop an understanding of basic concepts of law and garner skills and acquire knowledge required in legal writing and research.
Paper-2 PoliticalScience–III(Concepts&Ideology)	**CO1:** The students will be able to answer how politics have been used by different schools and approaches differently. **CO2:** The students will be able to explain what are different schools to understand the state and why the state is so central to discourses in politics. **CO3:** The students would be able to explain what are contemporary discourses on rights, liberty, equality, and justice. **CO4:** They will be able to explain how

	democracy is defined and understood differently and what are the key issues at the core of discussions on democracy. **CO5:** This paper helps the student to critically analyse the relationship between government and the political scenario in the country and to study its relevant in present times. It also enables the student to study the major constitutions of the world by adopting a comparative approach.
Paper-3 Sociology&Law–III	**CO1:** This course provides an understanding of the interrelation between law and society. The course also addresses various problems of Indian society and measures taken to eradicate these problems. **CO2:** Describe and provide examples of how sociology differs from and is comparable to other social sciences. **CO3:** Define theory and explain its function in the development of sociological knowledge. **CO4:** Studying the course students will gather knowledge on various social problems and try to put contrast and compare fundamental theoretical approaches. **CO5:** Development of good connections between people of various racial and cultural backgrounds.
Paper-4 ConstitutionalLaw–I	**CO1:**To create and set up a basic philosophical tenets of Indian Constitutional Law. **CO2:** To instill not just a bare understanding of but a perspective on constitutional developments in Indian Constitutional Law. **CO3:** To understand the system of Government and the fundamental principles governing its organization. **CO4:**To understand the detailed analysis of fundamental freedoms guaranteed under the Indian Constitution and It encourages students to engage in "judicial activism." **CO5:** to enable the student to understand the supreme law of the land, the fundamental rights and the duties and the functions of the courts to redress the violation of such rights.
Paper-5 ICT&LegalResearch(SkillEnhancementCourse)	**CO1:** Will understand the usage of Internet/Web services as a resource for learning and discovery. **CO2:** The provisions of the Information

	Technology Act, 2000 in relation to e-commerce, e-governance and cybercrimes. **CO3:** Synthesis of case laws, identification of issues, applicability of relevant provisions and critical analysis of the judicial decisions with reference to the Information Technology Act. **CO4:** The gaps in the existing legal framework and countering these challenges thrown up by ever changing technological developments. **CO5:** The application of other laws viz. jurisdiction, contract and Trade mark to cyberspace.

B.A. LL.B.
Course Outcome
Semester-4

After completion of this Course, the student :

Paper-1 English–IV(LegalLanguage)	**CO1:** It enables the student to understand the various theories and concepts which deals with the sources of law such as Judicial precedents, legislation etc. and the concepts like possession, ownership etc. **CO2:** By learning the legal Jurisprudence students will be knowing important questions like, what is law, what are the purposes of law?, the relationship between law and justice and the like and to analyze the legal concepts. **CO3:** The main prerequisite for mastering the course of particular English is persuasive speaking in meetings and negotiating, client counseling, writing formal letters, making in-depth presentations, comprehending the language contracts, and negotiable instruments. **CO4:** Create ordered and cohesive communications and essays with clear paragraphs and proper introduction and conclusion strategies. **CO5:** Produce well-supported messages and essays using various patterns of growth while keeping purpose and audience in mind.
Paper-2 PoliticalScience–IV(InternationalRelations)	**CO1:** Familiarization with the key concepts of the discipline of IR. **CO2:** Understanding of linkages between Classical Realism and Classical Geopolitics. **CO3:** Comprehensive understanding of the key assumptions and arguments of the mainstream IR. d. Appreciation of what is Global IR and why non-western perspectives are needed. **CO4:** Greater appreciation of the important role played by non-Western countries in building post-War norms and institutions in key areas such as universal sovereignty, human rights,

	development, and regionalism. **CO5:** Understanding the agency of the Global South in these areas is key to countering IR's ethnocentrism and developing new concepts, theories, and methods.
Paper-3 EconomicsandLawIII	**CO1:** Students will be able to identify and explain economic concepts and theories related to the behaviour of economic agents, markets, industry and firm structures, legal institutions, social norms, and government policies. **CO2:** Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence in order to explain past economic events and to formulate predictions on future ones. **CO3:** Exhibit a sophisticated and comprehensive understanding of the legal system's political, social, historical, philosophical, and economic contexts. **CO4:** Students will be able to combine theoretical knowledge with quantitative and qualitative information to explain previous economic events and forecast future ones. **CO5:** It enables the student/learner to comprehend the relationship between supply and demand and how to achieve a balance between both.
Paper-4 FamilyLaw–I(Marriage,Divorceand MatrimonialDisputes)	**CO1:** Students will be able to know mutual rights and duties in law in the personal sphere of family under the Hindu and Muslim law and are able to develop social, moral and ethical values in family matters. **CO2:**This course enables the student to get acquainted with the laws pertaining to marriage, divorce, property and position of women under the different personal laws in India. **CO3:**To learn about family laws and to equip students with understanding of both codified and un-codified Hindu law. It is concerned with the origins, schools, institutions, maintenance, the dowry threat, and so on. **CO4:** Students will get exposure to legal institutions working for settlement of family disputes. **CO5:** Students will be enlightened, through case law, about the interpretation of statutory law by judiciary.

Paper-5 CONSTITUTIONALLAW–II	**CO1:**This subject enables the students to understand the relationship between the Center and the states, the role of the Governor in the states, the functions of the election commission and the distribution of finance between the center and the states for effectively enkindling the laws and rules in force in the state. **CO2:** Nature of the Indian Constitution, theory of Basic Structure of the Constitution and the Indian federalism; **CO3:**Power to cede Indian territory to a foreign State, power to create and extinguish a State, alteration of name, area and boundary of existing States; **CO4:**Working of the three organs of the State and about the President/Governor and the Council of Minister, Legislative procedures and Privileges. **CO5:**The independence of judiciary and the appointment and transfer of Judges of Constitutional Courts; Distribution of legislative powers between the Centre and the State, Judicial review of Ordinances.
Paper-6 PRIVATEINTERNATIONALLAW	**CO1:** Understand the meaning of Private International Law, its legal basis and its position vis-à-vis the Indian legal system. **CO2:** Distinguish between various sources of Private International Law and their respective use in any given dispute involving questions of law. **CO3:** Understand the relationship between Private International Law and the national legal system with special emphasis on India. **CO4:** Analyze the impact of private international law from comparative and international perspectives, and in the context of social and cultural diversity. **CO5:** Apply private international law rules to complex problems and issues, critique the operation of private international rules from a theoretical perspective.

B.A. LL.B.
Course Outcome
Semester-5

After completion of this Course, the student :

Paper-1 PoliticalScience–V(Politics&ForeignPolicyinIndia)5	**CO1:** Students would be able to learn the key drivers of Indian politics. The students will be able to explain how caste, religion, language have influenced the identity politics in India. **CO2:** This paper helps the student to critically analyze the relationship between government and the political scenario in the country and to study its relevant in present times. **CO3:** They will be able to critically examine and explain the

	development issues in India, especially in the farm and industrial sectors. **CO4:** They will be able to know what ails our electoral democracy and what are the key issues related to expenditure in elections and their public funding **CO5:** India's world view, geopolitical vision, and key principles. New Frontiers of Indian Foreign Policy and Diplomacy. India's Nuclear Policy and Strategy. India's engagement with the Indian Ocean and Indo-Pacific.
Paper-2 LawofCrimes	**CO1:** The students should be able to identify the concept of criminal liability as distinguished from the civil liability. **CO2:** Identify the elements of crime in given factual situations entailing culpability. **CO3:**This subject facilitates the student to understand the ingredients of an offence which is made punishable under the provisions of the Indian Penal Code and the general defenses that can also be taken in order to prevent such an offence. **CO4:** It also aids in understanding the many types of crimes and their components, methods of control, and the fundamental concepts of criminal culpability through a study of a variety of offences. **CO5:** Be familiar with the range of Specific Offences (Bodily offences and Property offences).
Paper-3 Jurisprudence	**CO1:** Students will be acquainted with the basic ideas and fundamental principles of Law in the given society. **CO2:** Critically examine and research complicated legal and legal theory challenges, and make reasoned and acceptable decisions among options. **CO3:** Demonstrate an advanced and comprehensive understanding of the political, social, historical, philosophical, and economic contexts of law. **CO4:** Students will be able to identify such pressing demand or problems which require solution within the parameters of the law, justice and other social norms. **CO5:** It enables the student to understand the various theories and concepts which deals with the sources of law such as Judicial precedents, legislation etc. and the concepts like possession, ownership etc.
Paper-4 FamilyLaw–II(MatrimonialProperty,Guardianship &Adoption)	**CO1:** By reading the above course, students will be able to understand the legal or statutory provisions relating to maintenance, Adoption, and Guardianship. They will also be able to resolve disputes in joint Hindu families. **CO2:** Have adequate knowledge of relevant issues addressed by family law such as Hindu joint family, coparcenership, partition, succession of Hindu law and gift, will and inheritance of Muslim law.

	CO3: Be equipped with tools to critically analyze family law and ascertain its social impact. **CO4:** Be able to break down complex family law problems and come up with workable and welfare-enhancing solutions. **CO5:** Personal laws are examined and compared in family law. Students will learn to think critically, analyze arguments, and present them verbally and in writing.
Paper-5 Electivecourses–I (i)BankinglawincludingNegotiableInstrumentAct	**CO1:** To make the students understand the various services offered and various risks faced by banks. **CO2:** To make them aware of various banking innovations after nationalization. **CO3:** The Banking Law course is intended to primarily familiarize students with the operational parameters of banking law, as well as to teach the general principles of banking law and to develop students' appreciative faculties in statutory, will, and case – law in this area. **CO4:** Many reputable firms and independent legal consultants are drawn to the rapidly expanding field of financial and investment services. **CO5:** E-commerce and e-banking are two new emerging dimensions in banking systems.
Paper-5 (ii)MediaandLaw	**CO1:** It enables students to learn about media laws in India and around the world, as well as the right to free expression and reasonable restrictions. **CO2:** To familiarise students with the major principles of media law by investigating key court decisions and statutory enactments. **CO3:** To instil in students an understanding of relevant constitutional liberties, legal issues, and ethical principles concerning the press and media. **CO4:** To assess students' understanding of how the law is formed, including the delicate balancing of changing dimensions of time and social values. **CO5:** To assist students in recognising and asserting their legal rights to free speech and expression, privacy, and to analyse the restrictions, including regulatory frameworks, and to apply the same to emerging media.

B.A. LL.B.
Course Outcome
Semester-6

After completion of this Course, the student :

Paper-1 PoliticalScience–VI(PublicAdministration)	**CO1:** The students will be able to make a difference between the public administration and private administration. **CO2:** They will be able to explain the journey of discourse in public administration in the sense that how the old public administration view was contested by the idea of new public administration and subsequently the discourse moved beyond that and started talking about New Public

	Management and New Public Service. **CO3:** What is the scientific management school by Taylor and Fayol and how it was contested by the Human Relation School? **CO4:** They will be able to explain what is the decision-making approach of Herbert Simon? **CO5:** They will be able to explain the concepts and theories on motivation, leadership and conflict management in the organization.
Paper-2 CyberLaw(SkillEnhancementCourse)	**CO1:**After completing the course, students will be familiar with the concepts related to cyber world and cyber law in general. **CO2:** Develop competitive edge on various facets of cyber-crimes Problems arising out of online transactions and provoke them to find solutions. **CO3:** Intellectual property issues in the cyber space and the growth and development of the law Regulation of cyber space at national and international level. **CO4:** Upholding ethical standards in cyber laws and intellectual property issues. **CO5:** Make learners aware of the social and intellectual property issues that are emerging from cyberspace, as well as develop an understanding of the relationship between commerce and cyberspace.
Paper-3 SpecialContract	**CO1:** To introduce students to the fundamental principles governing specialized contracts and lay a solid foundation for their subsequent study of other transactional and related laws. **CO2:** Learn about the law and procedure pertaining to the contract of Bailment, Pledge, Indemnity, and Guarantee, as well as the rights, duties, and liabilities of the Bailor, Bailee, Pawnor, and Pawnee. **CO3:** Demonstrate an advanced understanding of the underlying legal principles, rules and institutions which regulate agency, partnership, contracts and agreement. **CO4:** Increase the intellectual understanding of students regarding seller and buyer rights and also duties and partnership rights and duties. **CO5:** Know the rationale behind the formation of partnership agreements, limited liability partnerships and appreciate their contribution to laws in organizations.
Paper-4 PracticalPaper–I(ProfessionalEthics, AccountancyforLawyersandBarBenchRelations)	**CO1:** Evaluate the key themes in professional ethics to provide them with an understanding of moral decision making in the legal profession. **CO2:** Take appropriate decisions when faced with any professional dilemma. **CO3:** Recall and apply the principles of professional ethics in their professional life. **CO4:** Interview and counsel clients in a professional manner. **CO5:** Professional ethics has been designed as a practical component in the field of law to imbue students with high ethical values that form the foundation of the profession.

Paper-5 InternationalDisputeResolutionBodies	**CO1:**A student will be able to examine the legal framework for commercial dispute prevention and resolution in the international context. **CO2:**Identify the relationship between present justice delivery system and various ADR mechanism and the growing dependence on the ADR process **CO3:**Develop the understanding of the rules and principles operating the domestic arbitration, international arbitration in India and issues related thereto. **CO4:**Apply various alternative dispute resolving techniques and their application through negotiation, meditation and other ADR forums. **CO5:**Show knowledge and understanding of the international rights framework, its origins and justifying theories, as well as the ability to assess how specific human rights may be asserted, enforced, or violated.
Paper-6 Electivecourses–II (i) InsuranceLaw	**CO1:** This study helps students understand insurance law and analyse and study life insurance, fire insurance, and marine insurance in the context of the Indian scenario. **CO2:** Develop skills in insurance product development, cost and pricing, marketing, and distribution. **CO3:** It will make the students understand various principles, provisions that govern the Life General Insurance Contracts. **CO4:** Many reputable firms and independent legal consultants are drawn to the rapidly expanding field of financial and investment services. **CO5:** Retail, investment, merchant, treasury, and banking professionals can find lucrative opportunities in all branches of insurance, including life, property, automobile, and medical insurance.
Paper-6 ii)HealthLaw	**CO1:** Explain key legal principles relevant to the fields of health law studied in this course, including principles of negligence, consent, privacy and confidentiality, and regulation. **CO2**: Analyse lacuna within among the professional obligations of doctors and provides suitable remedies accordingly. **CO3:** Compare and contrast different legal and policy approaches to addressing health law problems **CO4:** Understand the Constitutional Provisions related to health and describe areas of health law and related issues. **CO5:** Upon completion, will be able to identify and comprehend related provisions under the constitution and other health-related laws, as well as analyse physician shortages and provide appropriate remedies.

B.A. LL.B.
Course Outcome
Semester-7

After completion of this Course, the student :

Paper-1 CivilProcedureCode&LimitationAct	**CO1:** The students will become well versed with the basic keywords used frequently in the civil courts such as plaint, written statement, summons, plaintiff, defendant, judgment, decree, and so on. **CO2:** The students would be able to locate the jurisdiction of the various civil courts after reading this subject by knowing the various jurisdictions that are there at every level as per the hierarchy of civil courts. **CO3:** Show that you understand how to draught a document for submission to a court. Recall and apply the law applicable to selecting a court as well as initiating and responding to a suit. **CO4:** This C.P.C course is intended to study the significance of procedural law. To familiarize students with the various stages that a civil case goes through, as well as the related issues. The course also covers the law of limitation. **CO5:** To reach an expeditious resolution for a variety of civil disputes, devise an appropriate course of action and apply appropriate court rules and procedures in the legal system.
Paper-2 InterpretationofStatutes	**CO1:** It aids in the interpretation of legislation and legal aspects, allowing students to understand the legislature's intent in enacting a statute, how it can be interpreted, and the rules used by the legislature, such as the golden rule and the mischief rule. **CO2:** Provide a new interpretation of law by using various rules of interpretation in various facts and circumstances. **CO3:** They should be in a position to apply various rules of interpretation to substantiate their argument and convince the judge in the court of law. **CO4:** Apply the rules of interpretation in course of their profession as a lawyer or as a judge. **CO5:** Uncover the rule of interpretation on which the judgment of Judge on particular issue is based Criticize the judgments on the basis of rule of interpretation.

Paper-3 .CompanyLaw	**CO1:** To critically evaluate the existing legal framework relating to company and regulatory framework of companies in accordance with the Companies Act, 2013 including the Companies (Amendment) Act, 2017. **CO2:** To demonstrate a detailed knowledge of specific areas of current importance and to appreciate the evolving nature of company law. **CO3:** Enable the development of critical and analytical abilities in the area of Company Law, culminating into a presentation during the class sessions of the course. **CO4:** Familiar with the current policy trends and developments in Company Law in India, UK and USA and of the likely impact of these trends and developments on the major topics in Company Law. **CO5:** Describe the theoretical assumptions that underlie the way companies are regulated in India and the way changes to those assumptions might result in law reform.
Paper-4 PropertyLawIncludingTransferofPropertyAct And Easement Act	**CO1:** Exhibit conceptual understanding of the doctrines stipulated under the Transfer of Property Act, 1882. **CO2:** Students will understand the most fundamental concepts in property law, such as easement and registration. **CO3:** Have adequate knowledge regarding the modes of transfer of property including sale, mortgage, lease, gift etc. **CO4:** Be equipped with tools to critically analyse property law and ascertain its social impact. **CO5:** To help a student understand the various modes of property transfer, such as sale, mortgage, and lease, as well as the laws that govern such transfers.
Paper-5 Electivecourses–III (i) MergerandAcquisition	**CO1:** This course will introduce students to the practice of Mergers and Acquisitions (M&A) in India. **CO2:** It will help students understand the legal issues that influence deal structuring, completion timelines, party responsibilities, and risk allocation among transaction parties. **CO3:** It provides students with an overview of M&A law in India as well as exposure to practical issues related to deal-making within the confines of those laws. **CO4:** Students will have the opportunity to investigate the opportunities and constraints created by M&A laws in India (i.e., the advantages and disadvantages of the various permissible approaches to M&A). **CO5:** It teaches students the key concepts contained in M&A transaction documents, as well as specific issues relating to cross-border M&A and PE investments in India, as well as contractual tools available to the parties to allocate deal risk and mitigate legal constraints.

Paper-5 (ii)RighttoInformation	**CO1:** It is intended to persuade students that the right to information promotes transparency and accountability in governance, thereby preventing abuse of power. **CO2:** Students will gain practical knowledge of how to request information from the government. **CO3:** Students will learn how to approach the appropriate forum in order to obtain information from public authorities. **CO4:** Students will learn about assisting citizens in securing information and ensuring transparency in governance. **CO5:** Students will learn about developing competency in the application of the law in the workplace.

B.A. LL.B.
Course Outcome
Semester-8

After completion of this Course, the student :

Paper-1 LabourLaws	**CO1:** Students should be able to explain the role of trade unions in the industrial setting. Students should be able to explain the major causes and consequences of labour disputes. Students should be able to create Industrial Dispute Resolution Procedures. **CO2**: Demonstrate an advanced understanding of the underlying legal principles, rules and institutions which regulate employer employee relationship in Indian industrial law. **CO3:** Develop the understanding of rationale behind the formation of Trade Unions and their working and appreciate their contribution to labour laws in organizations. **CO4:** It enables the learner to understand the different industrial laws and the mechanism for peaceful resolution of disputes without resorting to civil courts. **CO5:** Increase the intellectual understanding of students of labour law and individual employment rights, both in terms of black letter law and public policy as a labour lawyer.
Paper-2 LawofEvidence	**CO1:** To acquire the knowledge of the basics of Law of evidence and develop an understanding of the law of evidence and its operation. **CO2:** To discuss the overview about the courts and various principles and provisions that governs the Law of Evidence. **CO3:** To contradict and contrast between the English law and the Indian law and the Adversarial and the Inquisitorial system of law. **CO4:** To demonstrate a detailed knowledge of specific areas of current importance and to analyze the evolving nature of law of evidence. **CO5:** To ascertain and discuss the facts of complex legal problems including implementation of the involving question of Law of Evidence.

Paper-3 CriminalProcedureCode, JuvenileJusticeAct& ProbationofOffendersAct	**CO1:** To appreciate the importance of criminal procedure and its indispensable attributes in a civilized society. **CO2:** To be familiar with the powers, functions, and duties of police as one of the primary functionary of the criminal justice. **CO3:** The criminal prosecution system in India: who prosecutes, the process to compel the appearance of a person, the process to compel the production of things, the right to a speedy trial, and so on. **CO4:** The student will be familiar with the organization of functionaries, their powers and functions at various stages, and the procedure for exercising these powers and functions under procedural law. **CO5:** The Criminal Procedure Act's legal rules governing arrest and bail, the rights of arrested people and how to apply such rules in a real-world scenario.
Paper-4 PracticalPaper-II(Drafting,Pleading&Conveyancing)	**CO1:** Apply fundamental/golden rules of Pleadings and Conveyancing while drafting deeds and agreements. **CO2:** Recall and apply the provisions of specific statute while drafting any petition/application under the said statute. **CO3:** Draft civil pleadings, criminal pleadings, matrimonial pleadings and constitutional pleadings. **CO4:** Comprehend the pleadings and prepare written replies for the same. **CO5:** Draft notices for their clients under various statutes and replies to the notices.
Paper-5 ApplicationofComputerin Law	**CO1:** Understand basic concepts and terminology of computers basic fundamentals of computer, operating system, networking, and use of computers in data processing. **CO2:** Use Internet/Web services as a resource for learning and discovery. **CO3:** Be able to identify issues related to information security. **CO4:** Students recognize the importance of the information and apply their knowledge and to expose them to the present day capabilities and limitations of computers. **CO5:** Make learners aware of the social and intellectual property issues that are emerging from cyberspace, as well as develop an understanding of the relationship between commerce and cyberspace.
Paper-6 Electivecourses –IV (i)CompetitionLaw&Practice	**CO1:** To identify and explain the founding principles of Indian Competition Law. **CO2:** To understand the types of behaviour and the market circumstances that invokes competition law and policy. **CO3:** To demonstrate a detailed knowledge of specific areas of current importance and to appreciate the evolving nature of competition law. **CO4:** To ascertain and evaluate the facts of complex legal problem involving question of competition law.

	CO5: Students will understand the economic, legal, and ethical implications of financial market fraud. To assist them in analysing various legal provisions concerning insolvency, competition law, and other related laws.
Paper-6 (ii)GenderJusticeandFeministJurisprudence.	**CO1:** Students will be able to understand how gender is constructed differently in different places, as well as how the vulnerability of women and LGBTQ people varies from country to country or within one's own country. **CO2:** Based on gender differences, students can identify and articulate changes that could improve people's lives. **CO3:** Students will be able to solve problems that arise when different gender or sexuality notions collide in homes, workplaces, and communities. **CO4:** Students will learn to value and appreciate diverse perspectives based on their own lived experiences. **CO5:** Students will be able to think critically about language, gender, and culture in order to explain the texts' overt and covert meanings.

B.A. LL.B.
Course Outcome
Semester-9

After completion of this Course, the student :

Paper-1 AdministrativeLaw	**CO1:** A student will understand the relationship between the three wings of the government. **CO2:** Apply their knowledge to solve factual situations relating to administrative law and support them with logical arguments. **CO3:** The emphasis is on their role in protecting individuals' rights against abuse of administration, adjudicatory powers of administration, and administrative liability. **CO4:** Students will learn about the nature and development of administrative law, as well as effective administrative control methods. **CO5:** Explain the foundational concepts and basic principles of administrative law and practice in this area in the law courts/tribunals.
Paper-2 EnvironmentalLaw	**CO1:** Acquire the ability to evaluate the role of law and policy in conservation and management of natural resources and prevention of pollution. **CO2:** It will develop a sense of responsibility and, as part of their fundamental duty, will learn important principles such as intergenerational equity, carrying capacity, sustainable development, and the precautionary principle, polluter pay principles, and the law in practice. **CO3:** Develop understanding of the variety of regulatory techniques that have been applied to deal with environmental problems and the attributes, advantages and disadvantages of each. **CO4:** The student will become familiar with the various laws that govern our eco system. Students will gain fundamental knowledge of the environment, pollution, and various principles.

	CO5: Students will be able to get basic knowledge of environment, pollution and various principles. Students will get the knowledge about the Environment (protection) Act, powers of central government and state government tomake laws and Environment Tribunals.
Paper-3 LawonInfrastructure Development	**CO1:** The students will be able to critically reflect on the challenges in the development of sustainable infrastructure. **CO2:** Will be able to interpret infrastructure financing and the expansion of PPP (Public Private Partnership) in various sectors of infrastructure development. **CO3:** Students will achieve a level of well-informed professional so that he contributes to the delivery of infrastructure development and management. **CO4:** The student will be able to Identify the inadequacies in different infrastructure sectors and the policy changes required to facilitate rapid infrastructure development. **CO5:** Assess infrastructure law, regulatory requirements, and sectoral policies in relation to other contexts such as land, human rights, the environment, finance, and so on.
Paper-4 PracticalPaper-III(MootCourt,Pre-trialPreparationsand Participationintrialproceedings)	**CO1:** practice at all the stages of any case/matter and at all the fora with critical thinking **CO2:** do appellate advocacy by independent research, preparation of arguments and presenting arguments in a persuasive manner in appellate courts **CO3:** to do trial advocacy, i.e., case analysis, client interviewing and advise, how to conduct examination–in-chief and cross-examination of witnesses, preparation and presentation of arguments on facts and law in the trial courts. **CO4:** Interview clients and advise them on procedural aspects of litigation, costs and possible legal and social consequences, etc. **CO5:** To work in teams and develop the cooperative nature essential for the legal practice.
Paper-5 Electivecourses–V (i)DirectTax	**CO1:** Understand the basic concepts of taxation, the background, the general scheme of direct tax and interpretation of different provisions of the Income Tax Act; **CO2:** Students will be able to compute the tax liability of an individual and file income tax return. **CO3:** Identify, define, and resolve tax issues through their understanding, knowledge and application and to deal with court cases pertaining to tax. **CO4:** To improve one's ability to identify and apply legal provisions in realistic scenarios. **CO5:** It will prepare students for taxation by allowing them to conduct in-depth research on tax policy and provide a comprehensive picture of taxation in India.
Paper-5 (ii)LawonEducation	**CO1:** Students should be exposed to the ground realities of the right to education as a fundamental right guaranteed by the Indian Constitution. **CO2:** Students should be able to understand the benefits and drawbacks of

	the Right to Education Act of 2007. **CO3:** Students should be able to foster a high level of understanding in matters concerning women's participation and emancipation in the nation's educational goal. **CO4:** Students should be able to comprehend emerging trends in educational activities at various levels, education law, and implementation mechanisms. **CO5:** Students should be able to hone and direct their skills in order to promote best practices in education at all levels of society.

B.A. LL.B.
Course Outcome
Semester-10

After completion of this Course, the student :

Paper-1 PublicInternationalLaw	**CO1:** Understand the meaning of Public International Law, its legal basis and its position vis-à-vis the Indian legal system; **CO2:** Distinguish between various sources of Public International Law and their respective use in any given dispute involving questions of law; **CO3:** Understand the relationship between Public International Law and the national legal system with special emphasis on India **CO4:** Understand and reflect upon the jurisprudential doctrines and law related to the principle of State Responsibility, Law of the Sea, State Jurisdiction, Diplomatic and Consular Immunities; and **CO5:** Appreciate the International Human Rights instruments and institutions laying down human rights standards and India's position on protection of human rights.
Paper-2 IntellectualPropertyLaw s	**CO1:** the legal basis of the IPL and its impact in economic, social and technological context **CO2:** Synthesis of case laws, identification of issues, applicability of relevant provisions and critical analysis of the judicial decisions with reference to the Trade Marks Act, 1999, Geographical Indications Act, 1999 and Designs Act 2000 **CO3:** Tracing the existing legal framework through latest Judgments and applicability of provisions in the evolving as well as technological driven society. **CO4:** Intellectual Property Rights is intended to raise IPR awareness and familiarise students with the documentation and administrative procedures associated with IPR in India. **CO5:** Aids in the identification of various types of intellectual properties (IPs), the right of ownership, the scope of protection, and the methods for creating and extracting value from IP.
Paper-3 CourtManagement(Skill EnhancementCourse)	**CO1:** Students should be exposed to the world of the Indian judiciary and how it works. **CO2:** Will be eligible to apply intellectual law principles to serious challenges and evaluate the causes of delays in the dispensation of justice as well as possible solutions for the same.

	CO3: Students will be able to comprehend the nuances of Court Management methods used in the administration of justice in India. **CO4:** Students will be able to comprehend the benefits and drawbacks of the Indian legal system and the laws that apply to lawyers, administrators, and judicial officers, among other things. **CO5:** Students should be able to become lawyers if they are aware of the role they must play in the Justice Delivery System in order to speed up the judicial process.
Paper-4 PracticalPaper-III(MootCourt,Pre-trialPreparations andParticipationintrialproceedings)	**CO1:** Students will be exposed to the complexities of shaping prospective lawyers by instilling the art of talking, convincing, negotiating, mediation, arbitration, and so on. **CO2:** To teach children about international arbitration, the New York Convention, and awards made under the Geneva Convention. **CO3:**to help people comprehend all available dispute resolution options, the pros and cons of arbitration versus litigation, and the nature and range of each. **CO4:**to convey them the two most popular types of ADR are mediation and arbitration, the latter of which is considered to be the best method for resolving disputes. **CO5:**The syllabus also covers about the dispute resolution through Lok-Adalat and through other grassroots' levels.
Paper-5 InternationalEnvironmentalLaw	**CO1:** Students will be encouraged to respect and care for their environment, as well as to use litigation to protect flora and fauna and other environmental issues. **CO2:** It will instil a sense of responsibility, and as role of their fundamental duty, they will understand important principles such as intergenerational equity, carrying capacity, sustainable development, and the precautionary principle, polluter pay principles, and the law in practise. **CO3:** It will strengthen students' abilities to identify new law and apply existing law in the rapidly changing legal context of environmental law. **CO4:** To familiarise students with the country's overall environmental legal regime as well as its international obligations, and to provide students with basic knowledge and skills to understand environmental issues. **CO5:** Students will be exposed to the implications of how the environment affects people on a global and local scale.
Paper-6 Electivecourses–VI (i)IndirectTax	**CO1:** Students will be able to identify the various types of indirect taxes, as well as their taxability, expenses, and deductibility. **CO2:** Learn about the different indirect taxes and how they apply in real life scenarios. **CO3:** Define the basic concepts and terms used in the CGST and IGST Acts, as well as the functions, powers, and framework of the GST Council and GSTN.

	CO4: Understand the regulations of the GST levy and collection, as well as the provisions of the Reverse Charge Mechanism and the levy composition scheme. **CO5:** Emphasize the significance and benefits of Input Tax Credit, as well as the regulations, types, and procedures of Registration Assessment under the CGST Act.
Paper-6 (ii)Human Rights Law&Practice	**CO1:** Students should be able to showcase a deep understanding of human rights principles and practise. **CO2:** Students understand how human rights work to protect the fundamental rights of the vulnerable and weaker members of society. **CO3:** Students will be able to showcase a high level of understanding in the area of effective human rights compliance at the national and state levels. **CO4**: Students will be able to promote respect for international human rights while also assisting society and the state in creating awareness of the same. **CO5:** Students will be aware of the plight of the society's most vulnerable members, such as the elderly, the poor, women, and children, among others.

LL.M.	
Programme Outcome (POs)	
PO1	Familiarising students with laws and judicial interpretations at the national and international level and a comparative study of the same.
PO2	Apprising students of the legal system, rule of law, and administration of justice.
PO3	Imparting professionally and socially relevant legal education.
PO4	Sensitising students towards the issues of access to justice of the deprived, marginalised and weaker sections of society.
PO5	Producing internationally competent litigating lawyers, corporate lawyers, judges, judicial officers, legal officers, researchers, law reformers, law teachers, etc.
PO6	Imparting skills of legal reasoning, problem solving, research, legal writing, oral and written communication, persuasion, leadership and teamwork.
PO7	Promoting ethical practices in the profession of law.
PO8	Promoting inter-disciplinary approach to legal profession.
Programme Specific Outcome (PSOs)	
PSO1	Do legal research. • Understand, interpret, and apply law. • Evaluate and compare domestic and international laws. • Design, and formulate case theory and strategy. • Analyze and differentiate facts and law. • Solve problems by employing legal reasoning, research. • Choose et hical p ractices i n t he pr ofession of l aw a nd di scharge t heir s ocial responsibility.
PSO2	Interpret And Analyze the legal and social problems and work towards finding solutions to the problems by application of laws and regulations.
PSO3	Apply ethical principles and commit to legal professional ethics, responsibilities and norms of the established legal practices.
PSO4	Recognize the need for and have the preparation and ability to engage in

	independent and life-long learning in the broader context of legal change.
PSO5	Explore and explain the substantial & procedural laws in which they are made/ drafted and how students think and understand the legislative setup.
PSO6	Students are equipped with the knowledge of teaching methods through the subject on Teaching Pedagogy thereby enabling them to enter the teaching profession.
PSO7	Learn the art of doing doctrinal and empirical research which covers knowledge and implementation of various tools and techniques of research.

LL.M.
Course Outcome
Semester-I

After completion of this Course, the student :

Paper-1 Jurisprudence	CO1:StudentswillbeacquaintedwiththebasicideasandfundamentalprinciplesofLawinthegivensociety. CO2: KnowledgeofLawandLegalpreceptswillhelpthestudentstofaceexigenciesoflifeboldlyand courageously CO3: Studentswillbeinculcatedwithstandardsofidealforhumanconductintermsoflawforthe maintenance ofPublic conscience. CO4:Studentswillbeable to identifysuchpressingdemand orproblemswhichrequiresolution within the parameters ofthe law, justiceandother socialnorms.
Paper-2 Indian Constitutional Law: The New Challenges	CO1:Nature oftheIndian Constitution, theoryof BasicStructure oftheConstitutionand theIndianfederalism; CO2:Power to cedeIndian territoryto a foreignState, powerto createand extinguish aState,alteration of name,areaand boundaryofexistingStates; CO3:Workingofthethreeorgans ofthe State; CO4:The President/Governorand the Council of Ministers; CO5:Legislative procedures and Privileges; CO6:Judicial review of Ordinances; CO7:The independence ofjudiciaryand theappointment andtransfer of JudgesofConstitutionalCourts;Distribution of legislative powersbetween theCentre andthe State;
Paper-3 Viva-Voce	
Paper-4(a) Criminal Law in India	CO1:Toappreciatetheimportanceofcriminalprocedureanditsindispensableattributesina civilizedsociety. CO2:Tobefamiliarwiththepowers,functions,anddutiesofpoliceasoneoftheprimaryfunctionaryofthecriminaljustice. CO3:To be familiar with thestages of investigationandtrial in criminalcases.
Paper-4(b) General Principles of Law of Contract	CO1:ThesystemofformationanddischargeofcontractsinIndiaandtheroleofcourtsinenforcingthem. CO2:The concept ofvoluntarilycreatedcivilobligations. CO3:Synthesisofcaselaws,identificationofissues,applicability ofrelevantprovisionsandcriticalanalysisofthejudicialdecisions

	withreferencetotheIndianContractAct,1872,theSpecificRelief Act,1963,theIndianMajorityAct,1875,andtheInformation TechnologyAct, 2000. CO4:Tracingtheexistinglegalframeworkthroughlatest Judgmentsandapplicabilityofprovisions in the evolvingaswellastechnologicaldrivensociety.
Paper-4(c) Public InternationalLaw	CO1:UnderstandthemeaningofPublicInternationalLaw,itslegalbasisanditspositionvis-à-vis theIndian legal system; CO2:DistinguishbetweenvarioussourcesofPublicInternationalLawandtheirrespectiveusein anygiven disputeinvolvingquestions of law; CO3:UnderstandtherelationshipbetweenPublicInternationalLawandthenationallegalsystemwithspecialemphasis onIndia CO4:Understandandreflect uponthejurisprudentialdoctrinesandlawrelatedtotheprinciple ofStateResponsibility,LawoftheSea,StateJurisdiction,DiplomaticandConsularImmunities; and CO5:AppreciatetheInternationalHumanRightsinstrumentsandinstitutionslayingdownhumanrightsstandards andIndia's position on protection of humanrights.
Paper-5 Communication Skill and Personality Development (Skill Enhancement Course)	CO1: Personality Augmentation CO2: Classes on Soft Skills Development CO3:Overview on Communication Skills and Personality Development CO4: Workplace decorum CO5:Body Language and Presentation Skills CO6: Manners and Etiquettes CO7; Time-Management
Paper-6 RighttoInformation(Notforlawstudents)	CO1: Students will have a comprehensive understanding about the existing law on consumer protection in India. CO2:Students will be conversant with major international instruments on consumer protection CO3: Students will be aware of the basic procedures for handling consumer dispute. CO4: Students will be able to appreciate the emerging questions and policy issue in consumer law and future research. RTI

LL.M.
Course Outcome
Semester-2

After completion of this Course, the student :

Paper-1 Interpretationof Statutes	CO1: Aware and able to interpret Constitutional Panal Statules CO2:Aware of the concept of Justice Dharma in Indian Thought & Legal ordering. CO3:Will have knowledge about the nature of judicial process confrontation with the Legislature

	& executine. CO4:Aware of the Process of apperintment & transfer of judges and Role of Supreme Court Of India.
Paper-2 ResearchMethodologyI	CO1:Recognize primary and secondary sources of legal research material. CO2: Use and apply secondary sources, case law and legislation using both paper based and online resources to a research problem. CO3: Develop corrects research strategies to critically evaluate the relevance, quality, authority and currency of the research materials. CO5: Demonstrate good legal writing skills, including an understanding of the use and preparation of legal research material in legal writing and the correct methods of legal referencing.
Paper-3 Viva-Voce	

Paper-4(a) Criminology&Penology	CO1:Will Be acquainted with the definition nature& Importance,Schools &Methods of Criminologicl studies. CO2:will be aware of various theories of Criminology. CO3:will have knowledge about VARIOUS THEORIES OF Punishment, Victimology & Factors Resposible For causation of Crime.

Paper-4(b) Specific Contract	CO1:Thesystemofformationanddischargeofcontractsin India andtheroleofcourtsin enforcingthem. CO2:The concept ofvoluntarilycreatedcivilobligations. CO3:Synthesisofcaselaws,identificationofissues,applicabilityofrelevantprovision sandcriticalanalysisofthejudicialdecisionswithreferencetotheIndianContractAct,1 872,theSpecificReliefAct,1963,theIndianMajorityAct,1875,andtheInformation TechnologyAct, 2000. CO4:Tracingtheexistinglegalframeworkthroughlatest Judgmentsandapplicabilityo fprovisions in the evolvingaswellastechnologicaldrivensociety.
Paper-4(c) InternationalLawand Human Rights	CO1:International Law of Human Rights (ILHR) has become major part of Public International Law (PIL) as well as increasingly permeates into states national laws. Since adoption of the United Nations Charter we witnessed proliferation of endless normativity of human rights (HRs) standards in the forms of both global as well as regional human rights treaties, conventions, and declarations. CO2:We have arrived at a kind of global consensus on certain human rights values like- equal dignity and respect for all human beings, or the right to life or prohibition of discrimination on the basis of race, caste, religion, sex etc. However still it is difficult to give simple answer to question what human rights should the human beings have? CO3;The dominant ideology of sovereign nation state and growing market centric economic globalisation with other various factors circumscribe the protection, promotion and enforcement of ILHR. This course aims to examine the histories, ideas and concepts that inform international human rights law and practice, and on the relationship between human rights and other contemporary social phenomena, discourses and processes.
Paper-5 Yoga andLife Skill	CO1:The Student Will BE aware of Fandamentily Asanas. CO2:The Student Will Acquire Practical yoga skills.

Paper-6 Election Law	CO1:Identify the laws relating to elections to the Parliament, State Legislatures and to the offices of the President andVice President of India. CO2:Explain the qualifications and disqualifications for Members of ParliamentandStateLegislaturesinIndia. CO3:RecognizethecorruptpracticesthatcandidatesoftenresorttoinordertowinelectionstotheLegislaturesin India. CO4: Know the ambit of the right of voters to know the antecedents of candidates at elections to Legislatures in India.

LL.M.
Course Outcome
Semester-3

After completion of this Course, the student :

Paper-1 ResearchMethodologyII	CO1:Every researcher applies to clean methods like doctrinal, non doctrinal and data analysis in his /her research work.They put a conclusion in his research work. Total Finding only base on hypothesis and valuation. CO2:Each and every thesis title only basis of analysis. Researcher has responsible for his /her hard work plagrisam is important and useful in his future life for making and specific research & researcher. CO3:Researcher should be able to design and execute small scale research problems. CO4:Important case study and analysis is only basis of court judgment. CO5:The main objective of this course is to acquaint the student of law with the scientific method of social science research. CO6:This course is expected to provide the knowledge of the technique of selection, collection and interpretation of primary and secondary data in socio legal research. CO7:Emphasis would be laid on practical training in conducting research in this course. CO8:By the end of the course the students are expected to develop a scientific approach to socio legal problems. CO9:They should be able to design and execute small scale research problems. CO10:The practical skill in conducting research will be

	evaluated on their performance in field research and workshops/seminars.
Paper-2 JudicialProcess	CO1:The main objective of the course is to enable students to understand and seek solutions to pressing problems in the domain of global justice. By the end of the term, students are expected to have become familiar with the multiple dimensions of the theoretical literature and be able to critically evaluate the liberal, republican, and discursive democratic attempts to make sense of, and to ameliorate, prevailing instances of injustice in the world. This will be imparted through theoretical and philosophical debates advanced by various scholars and the institutional mechanism that need to be accelerated to achieve the objectives of global justice. CO2:This paper deals with the interaction between law and society. This paper examines the major laws, regulations and court decisions affecting the media. It aims to familiarize the theoretical debates on legislation, law and ethics in the Indian context. It also attempts to evolve an understanding of the complexities of ethical and legal moral values in society, State and practice. CO3:As a part of its statutory duty to create awareness and to build strong competition culture in the country, the Competition Commission of India has already taken up the matter with over all universities to incorporate the Competition Act as a part of syllabus. This syllabus also aims to create awareness among the students and develop their abilities to deal with the issues on the expanding horizons of corporate law.
Paper-3 Viva-Voce	

Paper-4(a) Socio-EconomicOffences	CO1: This course will examine the prosecution and defense of federal white collar crimes, including mail and wire fraud, RICO, criminal tax violations, bank fraud, health care fraud, perjury, obstruction and false statements. CO2:. Close examination will also be given to the law enforcement techniques used by federal prosecutors in white collar cases, including the grand jury, immunity, search warrants and subpoenas. CO3: The Fifth Amendment self-incrimination privilege and the attorney-client privilege will also be studied. Emphasis will be given to providing students with the background and tools to reason through practical problems faced by white collar practitioners.
Paper-4(b) CorporateLaw	**CO1:** Understand the basic principles of contracts applied on business agreements. **CO2:** Understand the various concepts related to a company and application of company law in the India.
Paper-4(c) HumanRightsinIndia	CO1: Understand the historical growth of the idea of human rights CO2;Demonstrate an awareness of the international context of human rights CO3: Demonstrate an awareness of the position of human rights in the U.N. Charter CO4; Understand the importance of the Human Rights Act 1998 CO5:. Analyze and evaluate concepts and ideas
Paper-5 ValueEducationandHumanRights (Skill EnhancementCourse)	CO1:The goal of the HRE program is to develop professional practitioners with expertise in the following key areas: CO2:Analyze the gap between universal rights and grassroots realities in local, global, and transnational contexts, with attention to issues of power, privilege, and marginalization. Explore the conditions and dimensions of empowering and transformative learning processes. CO3:Describe and critique the differing approaches,

	perspectives, and models toward human rights education and how they impact the ways in which HRE is carried out in diverse settings. CO4:Drawing on critical pedagogies, produce advocacy tools and curricular resources to be used in formal or non-formal educational contexts to address human rights violations. CO5:Design, conduct, analyze and present findings from interviews, using diverse methods, such as oral history, in order to raise awareness about human rights issues. CO6:Identifydiverse methodological tools and skills needed to conduct ethical research in a range of contexts such as classroom teaching, community organizing, and curriculum development, among others. CO7:Synthesize contextual understandings, reflective analysis, theoretical frameworks, and methodological training to inform either the production of a thesis or research-based field project.
Paper-6 LawandDevelopments(Notforlaw students)	CO1:beaware of the different perspectives of„ development "andhave fair knowledge about the theories of development; CO2:understand how law can be use dasa tool to ensure that the fruits of development reaches the poor and marginalized; CO3:be enabled to critique developmental policy or projects proposals; be able to advise and assist PSU s and private companies to see to it that the benefit of development reaches the socio-economically weaker sections; CO4: be able to advocate for and advise the

	development affected people and file petitions before the court for the sake of socio-economic justice for them.

LL.M.
Course Outcome
Semester-4

After completion of this Course, the student :

Paper-1 LawandSocialTransformation	**CO1:** To enable the student to acquire comprehensive knowledge about Indian approaches to social and economic problems in the changing contemporary society **CO2:** A spirit of inquiry to explore and exploit law and legal institutions as a means to achieve development within the framework of law **CO3:** Endeavour is to make the students aware of the role the law has played and has to play in the contemporary Indian society
Paper-2 IntellectualPropertyRights	CO1:To examine the definition and legal basis of IPRs in its broadest sense including patents, copyrights, trademarks, geographical indications, and designs; CO2: To study the evolution of IPRs as an international legal norm and its implications at the global level with specific focus on the concerns of developing countries, including India. CO3: To study the emerging new interpretations and consequent implementation issues relating to IPRs within multilateral and regional treaty framework and to examine and identify the conceptual and jurisprudential aspects with specific focus on cases and case studies at the national and international level. CO4: To understand the implications of emerging global IPR regime on frontier research areas such as traditional knowledge, biodiversity, biotechnology, digital/computer technology, internet and domain names.
Paper-3 Viva-Voce	
Paper-4(a) Dissertation	CO1: Identify key research questions within the field of Demography on which you will carry out independent research. CO2: Manage your time effectively whilst working on your independent research. CO3: Demonstrate appropriate referencing and develop skills in other aspects of academic writing. CO4: Demonstrate knowledge and understanding of report writing. CO5:Apply the demographic/statistical research training acquired in the taught element of the programme by designing an appropriate research strategy and research

	methodology to carry out your research
Paper-4(b) Dissertation	CO1:will Acquire skills of academic writing report writing.
Paper-4(c) Dissertation	CO1:will Acquire skills of academic writing report writing.
Paper-5 Computer Application	CO1:Aware of elements of computer Processing System DBMS &RDBMS, and ERP Package. CO2:Aware of the concept of operating system and its types,DOS & UNIX Commands. CO3: Have Knowledge about the networking concept,Network Protocols LAN & MAN. CO4:Have Knowledge about the Internet and Web Related Services;Such as E-mail,Chatling,Conferencing& telephony. CO5:Aware and acquire practical skill For using Microsoft office-2010.
Paper-6 Consumer Law	CO1:On successful completion of this Course the students will be able to: 1. Read, interpret and apply the Law of Torts in Indian and international context. CO2: Apply their knowledge to solve factual situations under tort law and support them with logical arguments. CO3: Practice in this area in the law courts/consumer fora. CO5: Write research papers/notes, case comments and work in research houses

Faculty of Management and Computer Application	
B.B.A.	
Programme Outcome (POs)	
PO1	Apply knowledge of Management theories and practices to solve business problem.
PO2	Foster analytical and critical thinking abilities for data based decision making
PO3	Be abreast with the e-business solutions in the current environment led by technology disruptions.
PO4	Ability to develop ethical and value based leadership ability.
PO5	Ability to understand analyses and communicate regional, national, global economic, legal and ethical aspects of business.
PO6	Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.
PO7	Students will be able to apply knowledge to real world.
PO8	Apply ethical principles and make ethical choice
Programme Specific Outcome (PSOs)	
PSO1	Students will be able to hold position in good management colleges
PSO2	Students hold passion for development
PSO3	Students have learning and problem solving ability
PSO4	Students will be able to tackle failures and challenges and will be able to

	emerge out of challenges
PSO5	Students will have integrity and ethical values

Course Coutcome

COURSE OBJECTIVES AND OUTCOMES FOR BBA FIRST SEMESTER

Principles of Management
Course Objectives:

1. Discuss the various concepts of planning, Decision making and controlling to help solvingmanagerial problems
2. Study and understand management concepts and styles in Global context.
3. Familiarizing the students with the contemporary issues in management.

Course Outcomes: After completing the course student will be able to understand and explain

CO 1: Developing understanding of managerial practices and their perspectives.
CO2: Applying planning and managerialdecision making skills.
CO 3: Develop analytical and problem solving skills, based on understanding of management concepts and theories.

BUSINESS STATISTICS

COURSE OBJECTIVES

1. Understand the different basic concept / fundamentals of business statistics.
2. Understand the practical application of various concepts.
3. Understand the importance of measures of Descriptive statistics which includes measures of central tendency, Measures of Dispersion, Time Series Analysis, Index Number, Correlation and Regression analysis and their implication on Business performance.

Course Outcomes: After completing the course student will be able to understand and explain:
CO1. Gaining Knowledge of basic concept /fundamentals of business statistics.
CO2. To develop practical understanding of various statistics concepts.
CO3. To compute various measures of central tendency, Measures of Dispersion, Time Series Analysis, Index Number, Correlation and Regression analysis and their implication on Business performance.

Financial Accounting

Course Objectives: This course is intended to introduce the basic theory, concepts and practice of financial accounting and to enable students to understand information contained in the published financial statements of companies and other organizations. It includes the preparation of accounting statements, but their uses and limitations will also be emphasized.

Course Outcomes: After completing the course student will be able to understand and explain

CO1. Understand and apply accounting concepts, principles and conventions for their routine monetary transaction;
CO2. Recognize circumstances providing for increased exposure to fraud and define preventative

internal control measures.
CO3. Create and Prepare financial statements in accordance with Generally Accepted Accounting Principles

ORGANIZATIONAL BEHAVIOUR
Course Objectives:

1. To enhance the understanding of the dynamics of interactions between individual and the organization.
2. To facilitate a clear perspective to diagnose and effectively handle human behavior issues in Organizations.
3. To develop greater insight into their own behavior in interpersonal and group, team, situations.

Course Outcomes: After completing the course student will be able to understand and explain

CO1: Comprehending the nature, functioning and design of organizations associal collectives.
CO2: To evaluate the reciprocal relationship between the organizational characteristics and managerial behavior.
CO3: Develop practical insights and problem solving capabilities for effectively managing the Organizational processes.

Business Communication

Course Objectives

1. To understand business communication strategies and principles for effective communication in domestic and international business situations.
2. To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, and self-expressive, in written, visual, and oral communication.
3. To develop the ability to research and write a documented paper and/or to give an oral presentation.

Course Outcomes: Upon successful completion of this course, the student should be able to:
CO1. Apply business communication strategies and principles to prepare effective communication for domestic and international business situations.
CO2. Analyze ethical, legal, cultural, and global issues affecting business Communication.
CO3. Develop an understanding of appropriate organizational formats and channels used in business communications.

COURSE OBJECTIVES AND OUTCOMES FOR BBA SECOND SEMESTER

Financial Management
Course Objective:

1. To gain an understanding on the use of basic business financial management concepts and tools of analysis such as valuation.
2. To gain an insight into various types of financing available to a firm.
3. To have an understanding of various factors considered in designing the capital structure.
4. To acquaint the students about key areas related to investment and Working Capital Management.
5. To gain an insight into various techniques of dividend and retention ratio.

Course Outcome: After successful completion of this course students will be able to

CO1 Understand the different basic concept /fundamentals of Corporate Finance
CO2 Understand the practical application of time value of money and evaluating long term investment decisions
CO3 Developing analytical skills to select the best source of capital ,its structure on the basis of cost of capital
CO4 Understand the use and application of different models for firm's optimum dividend payout.
CO5 Understand the recent trends of primary and secondary market and developing skills for application of various financial services.

MARKETING MANAGEMENT

COURSE OBJECTIVES

1. To facilitate understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints.
2. To develop understanding on Consumer and business buying behavior
3. Develop skill to understand Segmentation, Targeting and Positioning and develop strategy
4. Ability to Understand and implement the Marketing-Information Systems

Course Outcomes: Upon the successful completion of this course, the student will be able to:

CO1. Remember and Comprehend basicmarketing concepts.
CO2. Understand marketing Insights onapplication of basic marketing concepts.
CO3. Able to Apply and develop MarketingStrategies and Plans.
CO4. Understand and Analyzing Business/Consumer Markets
CO5. Develop skills and ability Identify & evaluate Market Segments and Targeting.

Computer Applications in Management

COURSE OBJECTIVES:

1. The course aims to provide knowledge about basic components of a computer and their significance.
2. To provide hands on learning of applications of MS Office and Internet in businesses.
3. To provide an orientation about the increasing role of management information system in managerial decision making to gain Competitive edge in all aspects of Business.
4. To understand various MIS operating in functional areas of an organization.
5. To create awareness in upcoming managers, of different types of information systems in an organization so as to enable the use of computer resources efficiently, for effective decision making.

Course Outcomes: Upon successful completion of this course, the student should be able to:

CO1. Gain in depth knowledge of working of anIT enabled organization.
CO2. Learn to use various IT tools for solvingBusiness Problems.

CO3. Develop and implement Information Systems for Business Applications.
CO4. Learn to increase efficiency of various management processes by using IT enabled technology.

CO5. Analyze various security and ethics relatedissues pertaining to the increasing use of Information Technology.

MANAGERIAL ECONOMICS

Course Objectives:

1. Understand the relative importance of Managerial Economics
2. Know how the application of the principles of managerial economics can aid in achievementof business objectives
3. Understand the modern managerial decision rules and optimization techniques.
4. Be equipped with the tools necessary in analysis of consumer behavior as well as in forecasting product demand
5. Understand and be able to apply latest pricing strategies
6. Understand and analyses the macro environment affecting the business decision making

Course Outcomes: After completing the course student will be able to understand and explain

CO1: Students will be able to remember the concepts of micro economics and also able to understand the various micro economic principles to make effective economic decisions under conditions of risk anduncertainty.
CO2: The students would be able to understand the law of demand & supply & their elasticities, evaluate &analyses these concepts and apply them in various changing situations in industry . Students would be able to apply various techniques to forecast demandfor better utilization of resources.
CO3: The students would be able to understandthe production concept and how the production output changes with the change in inputs and able to analyses the effect of cost to business and their relation to analyze the volatility in the business world.
CO4: The students would be able to understand& evaluate the different market structure and their different equilibriums for industry as wellas for consumers for the survival in the industry by the application of various pricing strategic.
CO5: The students would be able to analyses the macroeconomic concepts & their relation to micro economic concept & how they affect the business & economy.

COURSE OBJECTIVES AND OUTCOMES FOR BBA THIRD SEMESTER
BUSINESS ENVIRONMENT
Course Objectives:
The basic objective of the course is to develop understanding and provide knowledge about business environment to the management students.
To promote basic understanding on the concepts of Business Environment and to enable them to realize the impact of environment on Business.
To provide knowledge about the Indian and international business environment.

Course Outcomes: Upon successful completion of this course, the student should be able to
CO1. Comprehend the forces that shape business and economic structure and develop strategies to cope with the same.
CO2. Evaluate the economic & political environmental dynamics to cope with the changing regulations affecting business and its profitability.
CO3.Analyze the competitive forces in environment and accordingly devise business policies and strategies to stay in competitive position.
CO4. Analyze the desirability of technological advancement in the current set-up and how to gain

technological advancement with least cost.

Corporate Accounting

COURSE OBJECTIVE:
To provide a comprehensive treatment of accounting principles, technique and practices.
To get the students acquainted with fundamental concepts and processes of accounting so that they are able to appreciate the nature of item presented in the annual accounts of an organization.
To have a basic understanding of significant tools and techniques of financial analysis, which are useful in the interpretation of financial statements.
To have a brief knowledge about international accounting standards as to have a global competence.

Course Outcome: After successful completion of this course students will be able to
C01 Understand the different basic concept /fundamentals of Corporate Finance
C02 Understand the practical application of time value of money and evaluating long term investment decisions

C03 Developing analytical skills to select the best source of capital ,its structure on the basis of cost of capital

Co4 Understand the use and application of different models for firm's optimum dividend payout.

Co5 Understand the recent trends of primary and secondary market and developing skills for application of various financial services.

Insurance and Risk Management
Course Objectives:
To study the risk management of corporation and Insurance requirements.
To use of risk management in regarding to insurance purchasing on behalf of corporation.
To focus on risk management theories and models as a corporate and decision-making process.
Being aware about the effect of getting involved in risky projects and what are the benefits and the profits for the companies and individuals.
To provide students with the fundamental knowledge of insurance and their operation in the financial market.
Course Outcome: After successful completion of this course students will be able to
CO1. Understanding the nature of risk management and insurance importance for both individual's investors and companies.
CO2.Identifying risk keys and financial risks facing businesses and insurance requirement.
CO3 Mapping out various risks and deal with different risks using appropriate risk management techniques
CO4. Understanding the organization of risk management
CO5.Evaluating risks in terms of frequency and severity using various statistical and financial tools.
CO6. Learning the risk management process that can be applied to a variety of risks.
CO7. Analyzing the main factors effecting risks to companies through case studies.

Public Finance
Course Objectives:

To understand the framework and tools for preparing public financial plans that serve as road maps

for goal achievement.
To analyze major financial planning issues and problems for effective money management.
To develop their own personal financial plans.

Course Outcomes: On completion of the course students would be able to:
CO1. Understand the sources of finance both public and private; demonstrate the role of government to correct market failures and possible advantage of public financing.
CO2. Attain the advantages and knowledge of public investments and other government expenditures. Understand the causes of growing public expenditures for various programmes and policies within and outside the country.
CO3. Understand the possible burden, benefits and distribution of various types of taxes among various classes of people, know the general trend and impact on general welfare and arouse them to suggest good and bad tax system.
CO4. Understand the needs of public borrowing from all possible sources to meet necessary public investment/expenditures. Also be alerted to find sources for repayment.
CO5. Deliver effectively the preparation of budget and how they are passed in the house. Understand the changes in size and flexibility of state and central budget along with the role played by Finance

Entrepreneurship and Small Scale Business Management

COURSE OBJECTIVES
The purpose of this course is to expose the student to the basic concepts of entrepreneurship and Common myths to becoming an entrepreneur. Students will be exposed to the functions of entrepreneurs, and problems faced by them in the real world.
To impart understanding of Entrepreneurial Finance, Assistance and role of entrepreneurial development agencies
To provide insights to students in converting an Idea to an opportunity and develop understanding of various funding sources for a startup.
Familiarizing the students on Developing a Business Plan and to provide basic understanding of Launching a New Venture

Course Outcome: After successful completion of this course students will be able to-
CO 1: Developing understanding of basic concepts of entrepreneurship.
CO2: Develop knowledge on Entrepreneurial Finance, Assistance and role of Entrepreneurial Development Agencies
CO 3: Develop understanding of converting an Idea to an opportunity and develop understanding of various funding sources
CO 4: Comprehend and develop skills to develop a Business Plan.
CO 5: Students to have a basic understanding ofLaunching a New Venture

COURSE OBJECTIVES AND OUTCOMES FOR BBA FOURTH SEMESTER

Production Management
COURSE OBJECTIVES:
To understand the role of Operations in overall Business Strategy of the firm.
To understand the application of operations management policies and techniques to the service sector as well as manufacturing firms.
To identify and evaluate the key factors and their interdependence of these factors in the design of

effective operating systems.
To familiarize the students with the techniques for effective utilization of operational resources and managing the processes to produce good quality products and services at competitive prices.

Course Outcome: After successful completion of this course students will be able to

CO1: Understand the role of Operations in overall Business Strategy of the firm - the application of OM policies and techniques to the service sector as well as manufacturing firms.
CO2: Understand and apply the concepts of Material Management, Supply Chain Management and TQM perspectives.
CO3: Identify and evaluate the key factors and their interdependence of these factors in the design of effective operating systems.
CO4: Analyze / understand the trends and challenges of Operations Management in the current business environment.
CO5: Apply techniques for effective utilization of operational resources and managing the processes to produce good quality products and services at competitive prices.

HUMAN RESOURCE MANAGEMENT
Course Objectives: In this course the students will learn the basic concepts and frameworks of Human Resource Management (HRM) and understand the role that HRM has to play in effective business administration. It will provide an insight as to how to use. Human Resource as a tool to implement strategies.
Course Outcomes: After the successful completion of the course the students will be in a position to address the challenges of organizational management through and with human resources. In addition it will help in:
CO1. Synthesize the role of human resources management as it supports the success of the organization including the effective development of human capital as an agent for organizational change.

CO2. Demonstrate knowledge of laws thatimpact behaviour in relationships betweenemployers and employees that ultimately impact the goals and strategies of the organization.
CO3. Understand the role of employee benefits and compensation as a critical component of employee performance, productivity and organizational effectiveness.

CO4.Show evidence of the ability to analyze, manage and problem solve to dealwith the challenges and complexities of thepractice of collective bargaining.
CO5. Demonstrate knowledge of practical application of training and employeedevelopment as it impacts organizational strategy and competitive advantage.

Rural Marketing Research

Course Objectives:
To Understand the fundamental concepts of Rural marketing research methods
To lay foundation for various statistical tools and techniques used in rural marketing research.
To introduce various managerial decision making models.
able to present the report writing skills in research

Course Outcome: Upon successful completion of this course, the student should be able to:

CO1 Understand the fundamental concepts of rural marketing research methods i.e., formulation and designing the Problem and various sample selection techniques.
CO2 Understand the preliminaries of research problem in the context of data collection and processing.
CO3 Tests the significance of various parameters of research problem through inferential statistical techniques and the forecasting analysis of the research problem.
CO4 Comparison of more than two populations with respect to averages based on analysis of variance and experimental designs and also able to understand various research report skills.

Management Information System

COURSE OBJECTIVES:
The main objectives of this course are to make students
1. To understand and asses the importance of information and its role in business.
2. To develop data analyzing skills in students to evaluate information and the tools used for information processing.
3. To imbibe theoretical knowledge of MIS in the students and prepare the students technological Competitive and make them ready to self-upgrade with the higher technical skills, either in their post graduation program or in the work place.

Course Outcome: After successful completion of this course students will be able to
CO1. Understand the information needs of an organization and a business function
CO2. Evaluate effectiveness of decision making process and identify its tools
CO3. Understand DSS techniques for making effective decisions
CO4. Design parameters for MIS application, for data analysis uses

COURSE OBJECTIVES AND OUTCOMES FOR BBA FIFTH SEMESTER

COMMERCIAL LAW
Course Objectives
To provide basic understanding of law of contract, Law of agency, Bailment & Pledge
To provide basic requirements of Negotiable Instruments Act, Law of Insurance and Law of Partnership for the purpose of conducting business
To impart basic provisions of Companies Act concerning incorporation and regulation of business organizations
To create an awareness about important legislations namely Sale of Goods Act, Consumer Protection Act, Factories Act having impact on business.
To appraise the students on the leading practical application oriented case studies – relevant and updated and analyzing case laws in arriving at conclusions facilitating business decisions.

Course Outcome: After successful completion of this course students will be able to

CO1. Acquire a sound understanding of the legal aspects of the laws affecting businesses

CO2. Apply basic legal knowledge to business transactions.

CO3. Communicate effectively using standard business and legal terminology

CO4. Analyse a given business context using basic understanding of the applicable Acts and develop a suitable operational framework.

CO5. Describe current law, rules, and regulations related to settling business disputes

Management of financial Institutions
Course Objective:
To gain an understanding on the use of basic business financial management concepts and tools of analysis such as valuation.
To gain an insight into various types of financing available to a firm.
To have an understanding of various factors considered in designing the capital structure.
To acquaint the students about key areas related to investment and Working Capital Management.
To gain an insight into various techniques of dividend and retention ratio.

Course Outcome: After successful completion of this course students will be able to

C01: Understand the different basic concept / fundamentals of Financial Management

C02: Understand the practical application of time value of money and evaluating long term investment decisions

C03: Developing analytical skills to select the best source of capital, its structure on the basis of cost of capital

CO4: Understand the use and application of different models for firm's optimum dividend payout.
CO5: Understand the recent trends of primary and secondary market and developing skills for application of various financial services.

Foreign Exchange
Corse Objectives:
The basic objective of this course is to provide to the country a steady stream of competent young men & women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of Import & Export Management
To promote basic understanding on the concepts of export and import documentations to enable them to realize the impact of documentations.

Course Outcome: After successful completion of this course students will be able to

CO-1-Identify the process of Registration process, Payment terms, Export costing and pricing.
CO2: Interpret the process of Shipment procedures, & summarize the various documents used in Shipping,
CO3: Classify the concept of various incentives, benefits & risk involved in shipping process
CO4: Discuss the various business planning Import procedures & various export promotion schemes
CO5: Demonstrate the various export promotion schemes &Types of Export Houses.

Accounting for Management
Course Objectives: This course is intended to introduce the basic theory, concepts and practice of financial accounting and to enable students to understand information contained in the published financial statements of companies and other organizations. It includes the preparation of accounting statements, but their uses and limitations will also be emphasized.
Course Outcome: After successful completion of this course students will be able to:
CO1. Understand and apply accounting concepts, principles and conventions for their routine

monetary transaction;
CO2. Recognize circumstances providing for increased exposure to fraud and define preventative internal control measures.
CO3. Create and Prepare financial statements in accordance with Generally Accepted Accounting Principles
CO4. Utilize the technology (such as computers, information databases) in facilitating and enhancing accounting and financial reporting processes
CO5. Analyze, interpret and communicate the information contained in basic financial statements and explain the limitations of such statements.
CO6 Understand the basic concepts and importance of working capital management

Operation Research
COURSE OBJECTIVES:

1. To understand the role of Operations in overall Business Strategy of the firm.
2. To understand the application of operations management policies and techniques to the service sector as well as manufacturing firms.
3. To identify and evaluate the key factors and their interdependence of these factors in the design of effective operating systems.
4. To understand the trends and challenges of Operations Management in the current business environment.
5. To familiarize the students with the techniques for effective utilization of operational resources and managing the processes to produce good quality products and services at competitive prices.

Course Outcome: After successful completion of this course students will be able to

CO1: Understand the role of Operations in overall Business Strategy of the firm - the application of OM policies and techniques to the service sector as well as manufacturing firms.
CO2: Understand and apply the concepts of Material Management, Supply Chain Management and TQM perspectives.
CO3: Identify and evaluate the key factors and their interdependence of these factors in the design of effective operating systems.
CO4: Analyze / understand the trends and challenges of Operations Management in the current business environment.
CO5: Apply techniques for effective utilization of operational resources and managing the processes to produce good quality products and services at competitive prices.

COURSE OBJECTIVES AND OUTCOMES FOR BBA FIFTH SEMESTER

Advance Accountancy

COURSE OBJECTIVE:

1. To provide a comprehensive treatment of accounting principles, technique and practices.
2. To get the students acquainted with fundamental concepts and processes of accounting so that they are able to appreciate the nature of item presented in the annual accounts of an organization.
3. To have a basic understanding of significant tools and techniques of financial analysis, which are useful in the interpretation of financial statements.
4. To have a brief knowledge about international accounting standards as to have a global competence.

Course Outcome: After successful completion of this course students will be able to
CO1 Understand the different basic concept /fundamentals of Corporate Finance

CO2 Understand the practical application of time value of money and evaluating long term investment decisions

CO3 Developing analytical skills to select the best source of capital ,its structure on the basis of cost of capital
CO4 Understand the use and application of different models for firm's optimum dividend payout.
CO5 Understand the recent trends of primary and secondary market and developing skills for application of various financial services.

Income Tax Law and Practices

COURSE OBJECTIVES:
The present course aims at familiarizing the participants with the principles, problems and structure of different types of taxes in Indian economy.
A student of taxation will have to make a detailed study of tax policy and tax provisions in India.
A broad understanding or role of taxation in economic and industrial development of an economy.

Course Outcomes: **After successful completion of this course students will be able to**

CO1: Understand about various Tax provisions and Tax planning
CO 2: Understand the scope of tax planning concerning various business and managerial and strategic activities can be explored.
CO 3: Have knowledge about various Tax Dates, Rates andForms
CO 4: Measure Corporate Tax and Taxation in case of business restructuring
CO 5: Understand how GST can be calculated & managed.

International Business Management
Course Objectives

1. To give the student an exposure to the dynamic environment of International Business

2. To understand the impact of environment on the International Business Operations of the firm

3. To explain the functions and form of the global monetary system

4. To explain the role of International organizations and Regional Trade

Course Outcome: After successful completion of this course students will be able to
CO 1: To get an overview of the key issues and concepts of International Business.
CO 2: Understand how and why the world's countries differ.
CO3: Understand the monetaryframework in which international Business transactions are conducted.
CO4: Understand the role of International Organizations and Regional Trade blocks

CO 5: Implement the decisions for international operations in a superior manner

Strategic Management

Course Objectives

1. A clear understanding of the key concepts and principles of strategic management

2. A set of useful analytical skills, tools and techniques for analyzing a company strategically

3. To provide a basic understanding of the nature and dynamics of the strategy formulation and implementation processes.

4. To encourage students to think critically and strategically.
5. The ability to identify strategic issues and design appropriate courses of action.

Course Outcome: After successful completion of this course students will be able to
CO1. Formulate organizational vision, mission, goals, and values.
CO2. Develop strategies and action plans to achieve an organization's vision, mission, and goals.
CO3. Develop powers of managerial judgment, how to assess business risk, and improve ability to make sound decisions and achieve effective outcomes.
CO4. Evaluate and revise programs and procedures in order to achieve organizational goals;
CO5. Consider the ethical dimensions of the strategic management process;

M.B.A.

Programme Outcome (POs)

PO1	Demonstrate the knowledge of management science to solve complex corporate problems using limited resources
PO2	Research literature identify and analyse management research problems
PO3	Identify business opportunities, design and implement innovation in work space.
PO4	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to management practice.
PO5	Apply ethical principles and make ethical choices
PO6	Function effectively as an individual, and as member or leader in diverse teams and in multidisciplinary settings
PO7	Communicate effectively with all stakeholders of his role as a manager.
PO8	Engage in independent and life-long learning.

Programme Specific Outcome (PSOs)

PSO1	Students will be able to attain competitive advantage
PSO2	Students will be able to maintain time management
PSO3	Students will be able to distribute responsibilities as a leader
PSO4	Students will be able to motivate employees
PSO5	Students will be able to bird eye vision to grab opportunities

Course Outcome

COURSE OBJECTIVES AND OUTCOMES FOR MBA FIRST SEMESTER
MANAGEMENT CONCEPTS

Course Objectives:
The purpose of this course is to expose the student to the basic concepts of management in order to aid the student in understanding how an organization functions, and in understanding the complexity and wide variety of issues managers face in today's business firms.
Discuss the various concepts of planning, Decision making and controlling to help solving managerial problems
Study and understand management concepts and styles in Global context.
Familiarizing the students with the contemporary issues in management.

Course Outcomes: After completing the course student will be able to understand and explain
CO 1: Developing understanding of managerial practices and their perspectives.
CO2: Applying planning and managerialdecision making skills.
CO 3: Develop analytical and problem solving skills, based on understanding ofmanagement concepts and theories.
CO 4: Comprehend and practice IndianEthos and Value Systems.
CO 5: Applying value based managementand ethical practices.

MANAGERIAL ECONOMICS
Course Objectives:

1. Understand the relative importance of Managerial Economics
2. Know how the application of the principles of managerial economics can aid in achievementof business objectives
3. Understand the modern managerial decision rules and optimization techniques.
4. Be equipped with the tools necessary in analysis of consumer behavior as well as in forecasting product demand
5. Understand and be able to apply latest pricing strategies
6. Understand and analyses the macro environment affecting the business decision making

Course Outcomes: After completing the course student will be able to understand and explain
CO1: Students will be able to remember the concepts of micro economics and also able to understand the various micro economic principles to make effective economic decisions under conditions of risk anduncertainty.
CO2: The students would be able to understand the law of demand & supply & their elasticities, evaluate &analyses these concepts and apply them in various changing situations in industry . Students would be able to apply various techniques to forecast demand for better utilization of resources.
CO3: The students would be able to understandthe production concept and how the production output changes with the change in inputs and able to analyses the effect of cost to business and their relation to analyze the volatility in the business world.
CO4: The students would be able to understand & evaluate the different market structure and their different equilibriums for industry as wellas for consumers for the survival in the industry by the application of various pricing strategic.
CO5: The students would be able to analyses the macroeconomic concepts & their relation to micro economic concept & how they affect the business & economy.

Financial Accounting for Managers

Course Objectives: This course is intended to introduce the basic theory, concepts and practice of financial accounting and to enable students to understand information contained in the published financial statements of companies and other organizations. It includes the preparation of accounting statements, but their uses and limitations will also be emphasized.

Course Outcomes: After completing the course student will be able to understand and explain:

CO1. Understand and apply accounting concepts, principles and conventions for their routine monetary transaction;

CO2. Recognize circumstances providing for increased exposure to fraud and define preventative internal control measures.

CO3. Create and Prepare financial statements in accordancewith Generally Accepted Accounting Principles.

CO4. Utilize the technology (such as computers, information databases) in facilitating and enhancing accounting and financial reporting processes.

CO5. Analyze, interpret and communicate the information contained in basic financial statements and explain thelimitations of such statements.

CO6. Understand the basic concepts and importance of workingcapital management.

BUSINESS STATISTICS & ANALYTICS

COURSE OBJECTIVES

1. Understand the different basic concept / fundamentals of business statistics.
2. Understand the practical application of various concepts.
3. Understand the importance of measures of Descriptive statistics which includes measures of central tendency, Measures of Dispersion, Time Series Analysis, Index Number, Correlation and Regression analysis and their implication on Business performance.
4. Understand the concept of Probability and its usage in various business applications.
5. Understanding Decision making environment and applying the Concept of Business Analytics.

Course Outcomes: After completing the course student will be able to understand and explain:

CO1. Gaining Knowledge of basic concept /fundamentals of business statistics.

CO2. To develop practical understanding ofvarious statistics concepts.

CO3. To compute various measures of central tendency, Measures of Dispersion, Time Series Analysis, Index Number, Correlation and Regression analysis and their implication on Business performance.

CO4. Evaluating basic concepts of probability and perform probability theoretical distributions.

CO5. Taking managerial decision and applyingthe Concept of Business Analytics.

ORGANIZATIONAL BEHAVIOUR

Course Objectives:

1. To enhance the understanding of the dynamics of interactions between individual and the organization.
2. To facilitate a clear perspective to diagnose and effectively handle human behavior issues in Organizations.
3. To develop greater insight into their own behavior in interpersonal and group, team, situations.

Course Outcomes: After completing the course student will be able to understand and explain:

CO 1: Comprehending the nature, functioning and design of organizations associal collectives.
CO2: To evaluate the reciprocal relationship between the organizational characteristics and managerial behavior.
CO 3: Develop practical insights and problem solving capabilities for effectively managing the Organizational processes.
CO 4: Analyzing the behavior of individualsand groups in organizations.
CO 5: Developing conceptual understandingof change and its implementation.

MARKETING MANAGEMENT
COURSE OBJECTIVES

1. To facilitate understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints.
2. To develop understanding on Consumer and business buying behavior
3. Develop skill to understand Segmentation, Targeting and Positioning and develop strategy
4. Ability to Understand and implement the Marketing-Information Systems

Course Outcomes: Upon the successful completion of this course, the student will be able to:
CO1. Remember and Comprehend basicmarketing concepts.
CO2. Understand marketing Insights onapplication of basic marketing concepts.
CO3. Able to Apply and develop MarketingStrategies and Plans.
CO4. Understand and Analyzing Business/Consumer Markets
CO5. Develop skills and ability Identify & evaluate Market Segments and Targeting.

Business Communication

Course Objectives

1. To understand business communication strategies and principles for effective communication in domestic and international business situations.
2. To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, and self-expressive, in written, visual, and oral communication.
3. To develop the ability to research and write a documented paper and/or to give an oral presentation.
4. To develop the ability to communicate via electronic mail, Internet, and other technologies for presenting business messages.
5. To understand and apply basic principles of critical thinking, problem solving, and technical proficiency in the development of exposition and argument.

Course Outcomes: Upon successful completion of this course, the student should be able to:
CO1. Apply business communication strategies and principles to prepare effective communication for domestic and international business situations.
CO2. Analyze ethical, legal, cultural, and global issues affecting business Communication.
CO3. Develop an understanding of appropriate organizational formats and channels used in business communications.
CO4. Gaining an understanding of emerging electronic modes of communication.
CO5. Developing effective verbal and non verbal communication skills.

Computer Applications and Management Information System

COURSE OBJECTIVES:
The course aims to provide knowledge about basic components of a computer and their significance:

1. To provide hands on learning of applications of MS Office and Internet in businesses.

2. To provide an orientation about the increasing role of management information system in managerial decision making to gain Competitive edge in all aspects of Business.
3. To understand various MIS operating in functional areas of an organization.
4. To create awareness in upcoming managers, of different types of information systems in an organization so as to enable the use of computer resources efficiently, for effective decision making.

Course Outcomes: Upon successful completion of this course, the student should be able to:
CO1. Gain in depth knowledge of working of anIT enabled organization.
CO2. Learn to use various IT tools for solvingBusiness Problems.
CO3. Develop and implement Information Systems for Business Applications.
CO4. Learn to increase efficiency of various management processes by using IT enabled technology.
CO5. Analyze various security and ethics relatedissues pertaining to the increasing use of Information Technology.

COURSE OBJECTIVES AND OUTCOMES FOR MBA SECOND SEMESTER

Business Environment

Course Objectives:

1. The basic objective of the course is to develop understanding and provide knowledge aboutbusiness environment to the management students.
2. To promote basic understanding on the concepts of Business Environment and to enable them torealize the impact of environment on Business.
3. To provide knowledge about the Indian and international business environment.

Course Outcomes (CO) : (Identify minimum skills/ knowledge necessary to be imbibed by students)
CO1. Comprehend the forces that shape business and economic structure and develop strategies to cope with the same.
CO2. Evaluate the economic & political environmental dynamics to cope with the changing regulations affecting business and its profitability.
CO3. Analyze the competitive forces in environment and accordingly devise business policies and strategies to stay in competitive position.
CO4. Analyze the desirability of technological advancement in the current set-up and how to gain technological advancement with least cost.
CO5. Understand the international influences on domestic business and measures to be taken for successful global business operations

HUMAN RESOURCE MANAGEMENT

COURSE CODE: 202

Course Objectives: In this course the students will learn the basic concepts and frameworks of Human Resource Management (HRM) and understand the role that HRM has to play in effective business administration. It will provide an insight as to how to use. Human Resource as a tool to implement strategies.
Course Outcomes: After the successful completion of the course the students will be in a position to address the challenges of organizational management through and with human resources. In addition it will help in:
CO1. Synthesize the role of human resources management as it supports the success of the organization including the effective development of human capital as an agent for organizational change.
CO2. Demonstrate knowledge of laws thatimpact behaviour in relationships betweenemployers and employees that ultimately impact the goals and strategies of the organization.

CO3. Understand the role of employee benefits and compensation as a critical component of employee performance, productivity and organizational effectiveness.
CO4. Show evidence of the ability to analyze, manage and problem solve to dealwith the challenges and complexities of thepractice of collective bargaining.
CO5. Demonstrate knowledge of practical application of training and employeedevelopment as it impacts organizational strategy and competitive advantage.

Business Research Methods

Course Objectives:

1. Understand the concept / fundamentals of research and their types.
2. Understand the practical application of various research techniques.
3. Understand the importance of scaling & measurement techniques and sampling techniques
4. Understand the importance of coding, editing, tabulation and analysis in doing research.
5. Understanding and applying the concept of statistical analysis which includes various parametric test and non parametric test and ANOVA technique and understand technique of report writing.

Course Outcome:
CO1. Knowledge of concept / fundamentals for different types of research.
CO2. Applying relevant research techniques.
CO3. Understanding relevant scaling & measurement techniques and should use appropriate sampling techniques.
CO4. Synthesizing different techniques of coding, editing, tabulation and analysis in doing research.
CO5. Evaluating statistical analysis which includes various parametric test and non parametric test and ANOVA technique and prepare report.

Financial Management

Course Objective:

1. To gain an understanding on the use of basic business financial management concepts and tools of analysis such as valuation.
2. To gain an insight into various types of financing available to a firm.
3. To have an understanding of various factors considered in designing the capital structure.
4. To acquaint the students about key areas related to investment and Working Capital Management.
5. To gain an insight into various techniques of dividend and retention ratio.

Course Outcome: After successful completion of this course students will be able to:
CO1 Understand the different basic concept /fundamentals of Corporate Finance
CO2 Understand the practical application of time value of money and evaluating long term investment decisions
CO3 Developing analytical skills to select the best source of capital ,its structure on the basis of cost of capital
CO4 Understand the use and application of different models for firm's optimum dividend payout.
CO5 Understand the recent trends of primary and secondary market and developing skills for application of various financial services.

Management Accounting and Control

Course Code: 205
Course Objectives:

1. To have a basic understanding of various types of costs and their relevance in decision making.
2. To have an understanding of Marginal Costing Technique and its application in decision making.

3. To gain an insight into the concept of breakeven point and its applications. To understand the concept of Variance and calculate various types of variances.
4. To apply the technique of budgeting in preparation of various types of budgets

Course outcome:

CO1: Recognixze the functioning and working of variousfinancial institutions in India thus in turn connecting it to the working of Indianeconomy.

CO2: Interpret the knowledge about the working of various financial instruments in the primary and secondary market in India as well as foreignmarket.

CO3: Classify about the working of micro finance instruments inIndia as well as foreign market

CO4: Interpret the knowledge about the banking industry and demonstrate the various market demand analysis

Production Operations and Supply Chain Management

COURSE CODE: 206

COURSE OBJECTIVES:

1. To understand the role of Operations in overall Business Strategy of the firm.
2. To understand the application of operations management policies and techniques to the service sector as well as manufacturing firms.
3. To identify and evaluate the key factors and their interdependence of these factors in the design of effective operating systems.
4. To familiarize the students with the techniques for effective utilization of operational resources and managing the processes to produce good quality products and services at competitive prices.

Course Outcome:

CO1: Understand the role of Operations in overall Business Strategy of the firm - the application of OM policies and techniques to the service sector as well as manufacturing firms.

CO2: Understand and apply the concepts of Material Management, Supply Chain Management and TQM perspectives.

CO3: Identify and evaluate the key factors and their interdependence of these factors in the design of effective operating systems.

CO4: Analyze / understand the trends and challenges of Operations Management in the current business environment.

CO5: Apply techniques for effective utilization of operational resources and managing the processes to produce good quality products and services at competitive prices.

Quantitative Techniques for Managers

COURSE CODE: 207

COURSE OBJECTIVES:

1. **To** Understand the importance of the use of OR application in decision Making environment**.**
2. To formulate LPP and Obtain Graphical Solutions & Acquire General idea of the Simplex method.
3. To understand and solve transportation & assignment models.
4. To know optimal sequence model and understand concepts of queuing theory.
5. To identify right time for replacement of equipment and understand project management techniques

Course Outcome: After successful completion of this course students will be able to

CO1. Understand the basic operations research concepts and terminology involved in optimization techniques

CO2. Understand how to interpret and solve business-related problems and

CO3. Apply certain mathematical techniques in getting the best possible solution to a problem involving limited resources

CO4. Apply the most widely used quantitative techniques in decision making

CO5. Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in order to achieve project success

Legal Aspects of Business

Course Code:208

Course Objectives:

1. To provide basic understanding of law of contract, Law of agency, Bailment & Pledge**.**
2. To provide basic requirements of Negotiable Instruments Act, Law of Insurance and Law of Partnership for the purpose of conducting business**.**
3. To impart basic provisions of Companies Act concerning incorporation and regulation of business organizations**.**
4. To create an awareness about important legislations namely Sale of Goods Act, Consumer Protection Act, Factories Act having impact on business.
5. To appraise the students on the leading practical application oriented case studies – relevant and updated and analyzing case laws in arriving at conclusions facilitating business decisions.

Course Outcome: After successful completion of this course students will be able to

CO1. Acquire a sound understanding of the legalaspects of the laws affecting businesses

CO2. Apply basic legal knowledge to businesstransactions.

CO3. Communicate effectively using standardbusiness and legal terminology

CO4. Analyse a given business context using basic understanding of the applicable Acts anddevelop a suitable operational framework.

CO5. Describe current law, rules, and regulationsrelated to settling business disputes

COURSE OBJECTIVES AND OUTCOMES FOR MBA THIRD SEMESTER

Strategic Management

Course Objectives

1. A clear understanding of the key concepts and principles of strategicmanagement
2. A set of useful analytical skills, tools and techniques for analyzing a company strategically
3. To provide a basic understanding of the nature and dynamics of the strategyformulation and implementation processes.
4. To encourage students to think critically and strategically.
5. The ability to identify strategic issues and design appropriate courses of action.

Course Outcomes: After completing the course student will be able to understand and explain:

CO1. Formulate organizational vision, mission, goals, and values.

CO2. Develop strategies and action plans to achieve an organization's vision, mission, and goals.

CO3. Develop powers of managerial judgment, how to assess business risk, and improve ability to make sound decisions and achieve effective outcomes.

CO4. Evaluate and revise programs and procedures in order to achieve organizational goals;

CO5. Consider the ethical dimensions of the strategic management process

INTERNATIONAL BUSINESS MANAGEMENT

Course Objectives

1. To give the student an exposure to the dynamic environment of International Business
2. To understand the impact of environment on the International Business Operations of the firm

3. To explain the functions and form of the global monetary system
4. To explain the role of International organizations and Regional Trade

Course Outcomes: After completing the course student will be able to understand and explain.

CO 1: To get an overview of the key issues and concepts of International Business.
CO 2: Understand how and why the world's countries differ.
CO3: Understand the monetary framework in which international business transactions are conducted.
CO4: Understand the role of International Organizations and Regional Trade blocks.
CO 5: Implement the decisions for international operations in a superior manner.

Human Resource Management

TALENT MANAGEMENT

Course objectives

1. This course focuses on the attraction, acquisition, and retention of talent in organizations
2. A clear understanding of talent management and its linkage with organizational strategy and other HR practices.
3. To provide the understanding of acquiring and retaining the talent in the organization.
4. To provide them the process of identifying and developing the potential talent to fulfill the present and future need of the organization.
5. In addition, the course will cover the negotiation problems that managers may face in decision-making processes; for example, the hiring negotiation, the promotion negotiation, the firing decision, and HR-relevant cross-cultural negotiation issues.

Course Outcomes: After completing the course student will be able to understand and explain.
CO 1: Knowledge of Talent Management Processes.
CO 2: Understanding for analysis of the impacts of Talent management in the organization.
CO 3: Competency to implement TalentManagement practices.
CO 4: Competency to develop leadershipqualities among subordinate
CO 5: Knowledge about the reward system to support Talent management

Performance and Reward Management

Course Objectives:

1. To create an understanding of the key concepts of performance management and contemporary methods for administering compensation and rewards in practices.
2. To articulate the benefits of using a performance development plan and the consequences of not having one in place.
3. To distinguish the elements of an effective, integrated performance development system.
4. To devise "SMART" annual performance objectives (e.g., objectives that are specific, measurable, attainable, relevant and track able).
5. To familiarize the students with the concept of competency mapping and understanding its role in career development.
6. To familiarize students with various aspects of compensation system in India and make them understand various issues linked with the process of fixing salary dearness allowance, bonus, incentive scheme and benefits.

Course Outcomes: After completing the course student will be able to understand and explain.

CO1: Knowledge of Performance Management and Performance Appraisal

CO2: Competency to understand the importance of importance of Performance Management
CO 3: Knowledge about the Compensationand Reward Systems
CO 4: Competency to implement the effectivereward systems in the organization
CO 5: Ability to explain the relevance of competency mapping and understanding its linkage with career development

Employee Relations and Labour Laws

Course Objectives:

1. To Provide conceptual framework of Industrial Relation
2. To make students aware with the Indian Labour legislation
3. To make students aware with the basic requirements and mandate of labour legislations
4. To help the students to understand the existing framework of Industrial Relation and Labour legislation.

Course Outcomes: After completing the course student will be able to understand and explain.

CO 1: Knowledge of Industrial Relation framework.
CO 2: Competency to understand the importance of Employee Relation within the perspective of Industrial Relation.
CO 3: Knowledge about relevant Laws ofHR management.
CO 4: Competency to interpreted and implement the Labour Laws within organization.
CO 5: Competency to use Collective Bargaining and Grievance redressal Mechanism

SALES AND RETAIL MANAGEMENT

Course Objectives:

1.To build knowledge, understanding, and skills in Sales and Retail Management.
2.Enable development and implementation of Sales and Retail Management strategies.
3.Help to analyze decision alternatives and criteria in the context of realistic problem situations in Sales and Retail Management.

Course Outcomes: After completing the course student will be able to understand and explain.
CO1: Students will develop knowledge, understandingand skills in Sales force management.
CO2: Acquainted with better understanding ofimplementation of sales management strategies.
CO3: Develop analytical skills for effective decisionalternatives in sales management problems
CO4: Develop the knowledge, understanding and skills inretail management.
CO5: Acquainted with better understanding of implementation of retail management strategies and develop analytical skills for effective decision alternatives in retail operations.
Consumer Behaviour & Marketing Communication

Course Objectives

1. To understand consumer behavior and explain the consumer decision making process
2. To define external and internal influences on buying behavior
3. To provide an understanding of integrated marketing communications (IMC) and its influences on other marketing functions and other promotional activities.
4. Help to understand what advertising is and its role in advertising and brand promotion.
5. Understand the importance of message design and the creativity involved in message designing.

Course Outcomes: After completing the course student will be able to understand and explain.

Course Outcomes

CO1. Understand the three major influences on customer choice: the process of human

decision making in a marketing context; the individual customers make up; the environment in which the customer is embedded.
CO2. Develop the cognitive skills to enable the application of the above knowledge to marketing decision making and activities
CO3. Be able to demonstrate how concepts may be applied to marketing strategy.
CO4. Apply an IMC approach in the development of an overall advertising and promotional plan.
CO5. Enhance creativity, critical thinking and analytical ability through developing an integrated marketing communication campaign

DIGITAL MARKETING

Course Objectives:

1. To help students understand digital and social media marketing practices.
2. To provide understanding of the concept of social media platforms
3. To impart learning on various digital channels and how to acquire and engage consumers online.
4. To provide insights on building organizational competency by way of digital marketing practices and cost considerations.
5. To develop understanding of the latest digital practices for marketing and promotion.

Course Outcomes: After completing the course student will be able to understand and explain.
CO1. Students will develop an understanding of digital and social media marketing practices.
CO2. Students will develop understanding of the social media platforms.
CO3. Students will acquire the skill to acquire and engage consumers online.
CO4. Students will develop understanding of building organizational competency by way of digital marketing practices and cost considerations.
CO5. Students will develop understanding of the latest digital practices for marketing and promotion.

Specialization: Finance

Investment Analysis & Portfolio Management

COURSE OBJECTIVE:

1. This course will emphasize an understanding of the economic forces that influence the pricing of financial assets.
2. Understanding of investment theory will be stressed and tied in withdiscussion of applicable techniques such as portfolio selection.
3. The course material will cover formulae that can be applied in differentbusiness situations regarding active portfolio management.
4. To expose the students to the concepts, tools and techniques applicable in thefield of security analysis and portfolio management.
5. To provide a theoretical and practical background in the field of investments

Course Outcomes: After completing the course student will be able to understand and explain.
CO1: Understand about various investment avenues.
CO 2: Understand the value of assets and manage investment portfolio.
CO 3 : Understand various Models of Investment and its applications.
CO 4: Understand and create various investment strategieson the basis of various market conditions.
CO 5: Measure riskiness of a stock or a portfolio position.

Tax Planning & Management

COURSE OBJECTIVES:

1. The present course aims at familiarizing the participants with the principles, problems and structure of different types of taxes in Indian economy.
2. A student of taxation will have to make a detailed study of tax policy and tax provisions in India.
3. A broad understanding or role of taxation in economic and industrial development of an economy.
4. Acquaint about the relevance of direct and indirect taxes in taking corporate decisions.
5. Familiarize students about the relevance of GST in taxation policy of the economy.

Course Outcomes: After completing the course student will be able to understand and explain.
CO1: Understand about various Tax provisions and Tax planning
CO 2: Understand the scope of tax planning concerning various business and managerial and strategic activities can be explored.
CO 3: Have knowledge about various Tax Dates, Rates andForms.
CO 4: Measure Corporate Tax and Taxation in case of business restructuring.
CO 5: Understand how GST can be calculated & managed.

Financial Market and Services

Course Objective:

1. To impart knowledge of the financial system of India, the role of important financial institutions, financial markets and financial instruments.
2. Familiarizing the students with the mechanism of commercial banking, its operations, instruments regulations etc.
3. Helping students in acquiring analytical skills in the money and capital market in the context of raising medium and long term funds
4. Familiarizing the students with the microfinance as a growing source of financialmechanism
5. Developing an appreciation among the students for the Banking services andproducts.

Course Outcomes: After completing the course student will be able to understand and explain.
CO1. Recognize the functioning and working of various financial institutions in India thus in turnconnecting it to the working of Indian economy.
CO2. Interpret the knowledge about the working of variousfinancial instruments in the primary and secondary market in India as well as foreign market.
CO3. Classify about the working of micro finance instruments inIndia as well as foreign market
CO4. Interpret the knowledge about the banking industry and demonstrate the various market demand analysis

Working Capital Management
Course Objectives:

1. To have a basic understanding of the concept and importance of sound working capital strategies of a firm.
2. To have an understanding of the impact of working capital policies relating to Cash management, inventory and receivables management on firm's profitability.
3. To gain an insight into the sources of working capital financing

Course Outcomes: After completing the course student will be able to understand and explain.

CO1: Understand the objectives and functioning of WTO
CO2: Investigate funds flow cycles and their impact on working capital management objectives.
CO3: Compare and contrast the relative merits of alternative working capital policies.
CO4: likely short-term and long-term impact on the firm.

CO5: Formulate appropriate working capital management policies to achieve corporate objectives.
CO6: Apply corporate cash management, accounts receivable management, bank relations, and inventory management techniques to maximize the share holders' value.

Specialization Group: Information Technology

ENTERPRISE RESOURCE PLANNING

Course Objectives:

1. Impart knowledge about Enterprise Resource Planning (ERP)
2. Impart knowledge of related technologies
3. Impart knowledge about implementation of ERP
4. Analyze the applications of ERP at operational levels
5. Analyze the applications of ERP at managerial practices.

Course Outcomes: After completing the course student will be able to understand and explain.

CO 1: Knowledge of ERP Technology and its importance
CO 2: Able to analyze the organizational readiness for ERP.
CO 3: Able to implement ERP in functional area of businesses and Management.
CO 4: Interpreting the impacts of ERP on business processes.
CO 5: Understanding the Market Trends in ERP applications

Web Technology and E- commerce

Course Objectives

1. To impart knowledge about basic concepts, significance, categories and implementation of e-business.
2. The course prepares students, as future managers, to critically assess the impact of information systems on the E-Business.
3. It also introduces those skills required in order to manage online environments and projects

Course Outcomes: After completing the course student will be able to understand and explain.
CO 1: Understanding technology the nature of Web
CO 2: Exploring the business potential of Web Technology
CO 3: Planning and executing the web basedbusiness application
CO 4: Knowledge about the Information andWeb Security
CO 5: Knowledge about the functioning ofonline payment systems

CLOUD COMPUTING FOR BUSINESS

Course Objective:

To impart knowledge about cloud computing and its application in business and understanding the importance of information management for a business organization.

Course Outcomes: After completing the course student will be able to understand and explain.
CO1: Understanding the Technologies in Cloud Computing
CO2: Knowledge about the services of Cloud Computing
CO3: Interpreting the business values of Cloud Computing
CO4: Knowledge about the Security in Cloud Computing
CO5: Knowledge of Virtualization

CORPORATE GOVERNANCE, VALUES & ETHICS

Course Code: MBA-401

Course Objectives:

1. To introduce the concept and importance of corporate governance
2. Tointroduce the concept and importance of business ethics
3. To know the facets of ethics management
4. To know the ethical values and Indian ethos in Management.

Course outcome:

CO1: After going through this course the student will be able to:

CO2: Have an insights into various concepts & cases related to Corporate Governance

CO3: Gain a deeper understanding of the various aspects, factors related to role of ethics in Business.

ENTREPRENEURSHIP DEVELOPMENT

Course Code: MBA-402

Course Objectives:

1. To provide basic understanding of entrepreneurship concept, functions of entrepreneurs, and problems faced by them in the real world.
2. To impart understanding of basic entrepreneurial skills and knowledge, and acquaint them with special forms of entrepreneurial trends.
3. To expose students to the entrepreneurial environment, creating awareness of business opportunities, and familiarizing them with formal practices in effective business plan formation. To provide insights to students on entrepreneurial opportunities, government support services and government policies.
4. To familiarize students with SME sector activities, venture capital financing and international entrepreneurial opportunities.

Course outcome: After successful completion of this course students will be able to-

CO 1: Developing understanding of basic concepts of entrepreneurship.

CO2: Develop knowledge on Entrepreneurial Finance, Assistance and role of Entrepreneurial Development Agencies

CO 3: Develop understanding of converting an Idea to an opportunity and develop understanding of various funding sources

CO 4: Comprehend and develop skills to Develop a Business Plan.

CO 5: Students to have a basic understanding of Launching a New Venture

Human Values and Professional Ethics

Course Code: MBA-403

Objectives:

1. To help students distinguish between values and skills, and understand the need, basic guidelines, content and process of value education.
2. To help students initiate a process of dialog within themselves to know what they 'really want to be' in their life and profession
3. To help students understand the meaning of happiness and prosperity for a human being.
4. To facilitate the students to understand harmony at all the levels of human living, and live accordingly.
5. To facilitate the students in applying the understanding of harmony in existence in their profession and lead an ethical life.

Course Outcome:

On completion of this course, the students will be able to

CO1: Understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society

CO2: Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Co-existence of Self and Body.

CO3: Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society

CO4: Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.

CO5: Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.

Training & Development

Code: MBA HR -4

Course Objective:

The course aims at exposing the learner to the Concept and practice of training and development in the modern organisational setting through the pedagogy of case discussions and recent experiences. The design of the course aims to provide an experimental, skill- based exposure to the process of planning, organizing and implementing a training system.

Course Outcomes: After successful completion of the course, the students must be in a position to address:

CO1: The field of Training and Development and its role in optimizing performance.

CO2: Applying theoretical concepts and models to training design.

CO3: Designing training interventions using a variety of methodologies.

CO4: Evaluating the effectiveness of training & development interventions.

CO5: Assessing whether training & development is a viable career option.

Negotiation & Conflict Management

Code: MBA HR -5

Course Objective:

To familiarize the learners with the dynamics of collective bargaining in the industrial relations environment in the country and to impart them relevant skills in effective negotiations so as to help in managing unions effectively. .

Course Outcome:

CO1: Understanding the central concepts of negotiation and conflict.

CO2: Providing experience in the negotiation and conflict management process.

CO3: Effectively diagnosing and planning for different types of negotiation situations.

CO4: Developing negotiating skills and confidence in a variety of contexts.

MARKETING OF SERVICES

COURSE OBJECTIVES

1. To develop an understanding of the basic concepts and issues in service marketing.
2. To build a working service marketing vocabulary so as to understand and discuss marketing concepts in business settings.
3. To learn about key characteristics of service and service processes, customer service experiences, the role of internal stakeholders in service delivery, and organizational

challenges of managing service.
4. To strengthen the ability tojustify and support decisions through information acquisition and management.
5. To provide an understanding of how service customers determine value in a service exchange and how this translates into a satisfied customer base.

COURSE Outcome

CO1: Understand and explain thenature and scope of services marketing;
CO2: Use critical analysis to perceive service shortcomings in reference to ingredients to create service excellence;
CO3: Be able to identify critical issuesrelated to service design, such as identifying and managing customer service experience, expectations, perceptions and outcomes
CO4: Provide a theoretical and practical basis for assessing service performance using company examples;
CO5: Identify and discuss characteristics and challenges of managing service firms in the modern world
CO6: Discuss key linkages between marketing and other business functions in the context of designing and operating an effective service system.

Integrated Marketing Communication

COURSE OBJECTIVES : The objectives of this course .

1. To provide an understanding of integrated marketing communications (IMC) and its influences on other marketing functions and other promotional activities.
2. Help to understand what advertising is and its role in advertising and brand promotion.
3. Understand the importance of message design and the creativity involved in message designing.
4. Understand the concept of international advertising and media planning and strategy.
5. Help in exploration of tools of promotion like sales promotion , publicity, public relation etc.

COURSE OUTCOMES: **Upon completion of the subject, students will be able to:**

CO1: Apply an IMC approach in the development of an overall advertising and promotional plan
CO2: Able to prepare marketing communication budget.
CO3: enhance creativity, critical thinking and analytical ability through developing an integrated marketing communication campaign
CO4: create an advertising strategy that employs appropriate message objectives.
CO5: develop insights into the characteristics of different forms of marketing communications such as advertising, sales promotions, public relations, point-of-purchase communications

Working Capital Management

Course Objectives:

1. To have a basic understanding of the concept and importance of sound working capital strategies of a firm.
2. To have an understanding of the impact of working capital policies relating to Cash management, inventory and receivables management on firm’s profitability.
3. To gain an insight into the sources of working capital financing.

Course outcome:

CO1: Evaluate comparative working capital management policies and their impact on the firm's profitability, liquidity, risk and operating flexibility.

CO2: Evaluate the importance of effective working capital management and its role in meeting the firm's strategic objectives and its impact in value creation.
CO3: Investigate funds flow cycles and their impact on working capital management objectives.
CO4: Compare and contrast the relative merits of alternative working capital policies and the likely short-term and long-term impact on the firm.
CO5: Formulate appropriate working capital management policies to achieve corporate objectives.

CO6: Apply corporate cash management, accounts receivable management, bank relations, and inventory management techniques to maximize the share holders' value.
CO7: Write a plan for a balanced integration of cash, credit and other short-term topics and policies.
CO8: Formulate and integrate an extended treatment on international working capital topics.

International Financial Management

Code: MBA FM -5

Course Objective: To acquaint the participants with conceptual clarity in the area of international financial management, and equip them with necessary skills in the applied and functional areas of International Financial Management.

Course outcome:
CO1: Apply corporate cash management, accounts receivable management, bank relations, and inventory management techniques to maximize the share holders' value.
CO2: Write a plan for a balanced integration of cash, credit and other short-term topics and policies.
CO3: Formulate and integrate an extended treatment on international working capital topics.

DATABASE MANAGEMENT SYSTEM

Code: MBA IT -4

Course Objective:

1. The course has been designed to introduce the students
2. with the applications of systems designed to manage the data resources of organizations.
3. The course gives an insight to students about the concept of data mining and warehousing.
4. The course familiarizes the student with requirement and working of database administrator.

Course Outcomes

CO1: The student will be able explain about the various types of database Models
CO2: The student gains knowledge about the working of relational model with the help of various SQL queries
CO3: The conceptual knowledge of remote data access, data warehousing and mining helps the student understand more about working pattern of Industries.

SYSTEM ANALYSIS & DESIGN

Code: MBA IT -5

Course Objective

1. This course aims at acquainting these students with tools techniques of planning, analyzing, designing, implementing and maintaining Information system.
2. The students are able to gain insight into the various types of threat which an information system is exposed.

Course Outcomes

CO1: The student will be able to know the various phases of making of information systems and to take various steps to protect the system from threats which can cause serious damage.

PAPER-1 **FUNNDAMENTAL OF COMPUTER& OFFICE AUTOMATION**	**CO1:** Be able to identify computer hardware and peripheral devices. **CO2:** Be familiar with software applications. **CO3:** Understand file management. **CO4:** Accomplish creating basic documents, worksheets, presentations with their properties. **CO5:** Experience working with email and recognize email netiquette

B.C.A.	
Programme Outcome (POs)	
PO1	Enable students to appreciate the importance of Cloud Computing and assess the need of resources for a given scenario
PO2	Implement a classroom + practical oriented curriculum that helps students understand the Security features which is required as part of Cloud offered by various providers.
PO3	Practically demonstrate various administrative features to be carried on Servers running on different platforms including Virtualization.
PO4	Equip students with learning on various Cloud Architectural Patterns which will help in providing solutions for various cloud platforms related scenarios
PO5	Imparting the required knowledge that ensures understanding of fundamental concepts, design and controls strategy, application security in web technology, tools and techniques to secure information
Programme Specific Outcome (PSOs)	
PSO1	An ability to apply knowledge of mathematics, computer science and management in practice
PSO2	Implement a classroom + practical oriented curriculum that helps students understand the Security features which is required as part of Cloud offered by various providers
PSO3	The program prepares the young professional for fundamentals of cloud computing.
PSO4	In order to enhance programming skills of the young IT professionals, the program has introduced the concept of project development in each language/technology learnt during semester.

SEMESTER -I

PAPER 1: Fundamental of Computers & Office Automation	CO1: They can classify the computers in different categories based on their capabilities. CO2: They will be able to discuss an understanding of the importance of algorithms in the development of computer applications. CO3: They may identify computer hardware and peripheral devices. CO4: They will be able to discuss the evolution of computers in different generations. CO5: They will be able to manage the files.
PAPER2: Fundamental programming in c	**CO1:** Describe the functional components and fundamental concepts of a digital computer system including number systems. **CO 2:** Construct flowchart and write algorithms for solving basic problems **CO 3:**Write 'C' programs that incorporate use of variables, operators and Expressions along with data types. **CO 4 :**Write simple programs using the basic elements like control statements, Functions, arrays and strings. **CO 5 :**Write advanced programs using the concepts of pointers, structures, unions and enumerated data types.
PAPER 3: Discrete Mathemetics	**CO 1** :Use mathematical and logical notation to define and formally reason about basic discrete structures such as Sets, Relations and Functions. **CO 2:** Apply mathematical arguments using logical connectives and quantifiers to check the validity of an argument through truth tables and propositional and predicate logic. **CO 3:** Identify and prove properties of Algebraic Structures like Groups, Rings and Fields . **CO 4**: Formulate and solve recurrences and recursive functions. **CO 5:** Apply the concept of combinatory to solve basic problems in discrete mathematics.
PAPER4: Principle of management	CO1: They will be able to identify various approaches in management in order to solve a problem. CO2: To understand the roles and responsibilities associated with managerial functions. CO3: They will be able to learn the strategies that can motivate our employee to give his best. CO4: They can identify the key contributors and their contributions in the development of management decisions. CO5: They will be able to know what a manager does and how they are integral to planning, organizing, leading, and controlling a modern organization
PAPER 5: Introduction to ICT Resources	CO 1: Discovering the milestones of ICT history; CO 2: Acknowledging the role of technologies in modern society and the potential of social web; CO3: Identifying IT uses in digital citizenship contexts. CO4: use a system map or a block diagram to identify the components of an ICT system. CO5: understand the meaning of all the terms highlighted in the text.
PAPER 6: Problem Solving using C Lab	CO1: Understand the difference between object oriented programming and procedural oriented language and data types in C. CO2: Program using C features such as composition of objects, Operator overloading, inheritance, Polymorphism etc. CO3: Simulate the problem in the subjects like Operating system, Computer networks and real world problems **CO4:** Write programs that involve the use of arrays, structures and user defined functions. **CO5:** Write programs using graphics and file handling operations.
PAPER 7: Computer Organization & Architecture Lab	**CO1:** Design and verify combinational circuits (adder, code converter, Decoder, multiplexer) using basic gates. **CO2 :** Design and verify various flip-flops.

	CO3: Design I/O system and ALU. **CO4:** Demonstrate combinational circuit using simulator. **CO5:** Design various types of memory and its organization.
PAPER8: Professional Communication Lab	**CO1:** Develop the ability to work as a team member as an integral activity in the workplace. **CO2:** Increase confidence in their ability to read,comprehend,organize, and retain written information. Improve reading fluency. **CO3:** Write coherent speech outlines that demonstrate their ability to use organizational formats with a specific purpose; Deliver effective speeches that are consistent with and appropriate for the audience and purpose. **CO4:** Develop proper listening skills; articulate and enunciate words and sentences clearly and efficiently. **CO5:** Show confidence and clarity in public speaking projects; be schooledin preparation and research skills for oral presentations.

SEMESTER - II

PAPER 1: Data structure using c	**CO1:** Understanding the linear and non-linear data structures, sorting and searching operations, File structures. **CO2:** Analyse the performance of - Stack, Queue, and Lists. **CO3:** Analyse the performance of Trees, Graphs, Searching and Sorting techniques. **CO4:** Implement all the applications of Data structures in a high-level language. **CO5:** Design and apply appropriate data structures for solving computing problems
PAPER 2: Object Oriented Programming Using c++	**CO 1:** Understand fundamental constructs of OOP. **CO 2:** Get the knowledge of UML with skills to draw UML diagrams. **CO 3:** Get the knowledge of different forms of OO Implementation. **CO 4:** Apply object oriented programming concepts in problem solving through C++. **CO 5:** Gain the basic knowledge on Object Oriented concepts.
PAPER 3: Computer Organization	**CO 1:**Understand the fundamentals of different instruction set architectures and their relationship to the CPU design. **CO 2:** Relate to arithmetic for ALU implementation. **CO 3**:Understand the Primary and Secondary storage System. **CO 4:**Learn about parallel computer structure and Pipelining **CO 5:** Classify and compute the performance of machines.
PAPER 4: ELCTIVE: System Analysis and Design	**CO 1:** A firm basis for understanding the life cycle of a systems development project; **CO 2**: An understanding of the ways in which an analyst's interaction with system sponsors and users play a part in information systems development; **CO 3:** Experience in developing information systems models; **CO 4:** Experience in developing systems project documentation; **CO 5:** An understanding of the object-oriented methods models as covered by the Unified Modelling Language.
PAPER 5: Communication and soft Skill	**CO 1:** Develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others. **CO 2:** Understand and practice different techniques of communication. **CO 3:** Practice and adhere to the 7Cs of Communication.

	CO 4: Familiarize with different types of Communication. **CO 5:** Understand and practice Interview Etiquettes.
PAPER 6: **Object Oriented Programming c++ Lab**	**CO1;** Use the Concept of Data Abstraction and Encapsulation in C++ programs. **CO2:** Design and Develop C++ program using the concept such as polymorphism, virtual function, exception handling and template. **CO3:** Apply object oriented techniques to analyze, design and develop a complete solution for a given problem. CO4: Understand dynamic memory management techniques using pointers, constructors, destructors, etc CO5: Demonstrate the use of various OOPs concepts with the help of programs.
PAPER 7: **Data Structures Using c Lab**	CO1: To understand different types of data structures and its basic operations. CO2: Implement appropriate searching and sorting techniques for a given problem. CO3: Ability to describe basic operations and its applications of stack, queue and linked list. CO4: To understand operations of Tree and its variations. CO5: Ability to understand file and its organization.

SEMESTER - III

PAPER 1: **Internet and Introduction to 'JAVA'**	CO1: Implement, compile, test and run Java programs comprising more than one class, to address a particular software problem. CO2: Demonstrate the principles of object oriented programming; CO3: Demonstrate simple data structures like arrays in a Java program. CO4: Understand the concept of package, interface, multithreading and File handling in java. CO5: Make use of members of classes found in the Java API (such as the Math class)
PAPER 2: **Fundamental of database management system**	**CO 1:** Master the basic concepts and understand the applications of database systems. **CO 2:** Construct an Entity-Relationship (E-R) model from specifications and to transform to relational model. **CO 3:** Construct unary/binary/set/aggregate queries in relational algebra. **CO 4:** Understand and apply database normalization principles. **CO 5:** Analyze the difference between traditional file system and dbms.
PAPER 3: **Software Engineering**	**CO 1:** Understand the steps in Software Development. **CO 2:** Select and implement different software development process models. **CO 3:** Extract and analyze software requirements specifications for different projects. **CO 4:** Develop some basic level of software architecture/design. **CO 5:** Apply standard coding practices
PAPER 4: **Elective** **E- Commerce**	CO1: To understand the Concept of E-commerce and Business Strategy in Electronic Age and different models of E-Commerce. CO2: Administer and Maintain B2B E-Business sites. CO3: Understand the Internet Architecture and Electronic Payment System. CO4: Demonstrate the knowledge of Legal and Regulatory policy issues in E-commerce. CO5: Determine the protection methods from public policy issues..
PAPER 5: **Fundamental of accounting with tally**	CO1:After successfully qualifying practical examination, students will be awarded certificate to work with well-known accounting software i.e. Tally ERP.9 CO2: Student will do by their own create company, enter accounting voucher entries including advance voucher entries, do reconcile bank statement, do accrual

	adjustments, and also print financial statements, etc. in Tally ERP.9 software CO3. Students do possess required skill and can also be employed as Tally data entry operator. CO4: This course helps students to work with well-known accounting software i.e. Tally ERP.9 CO5: Student will learn to create company, enter accounting voucher entries including advance voucher entries, do reconcile bank statement, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software
PAPER 6: Internet and Introduction to 'JAVA'	CO1: Understand the concept of Internet. Learn about various protocols CO2: Learn about working on Internet. CO3: Learn and work on various Internet Applications. CO4: Learn about Network Programming. CO5: Develop Java Applications, applets.
PAPER 7 Fundamental of database management system	CO1: Construct SQL queries to perform CRUD operations on database. (Create, Retrieve, Update, Delete) CO2: Understand principles of database transaction management, database recovery, security CO3: Learn brief introduction to Structured Query Language. Learn and implement Backup and Recovery of databases. CO4: Learn and implement the Database Security. CO5: Design Commercial database applications
PAPER 8 Fundamental of accounting with tally	CO1: Practical knowledge using TALLY package CO2: Identify events that need to be recorded in the accounting records CO3: Develop the skill of recording financial transactions and preparation of report CO4: Tally is an accounting package which is used for learning to maintain accounts. CO5: Students will learn to create company, enter accounting voucher entries including advance voucher entries, do reconcile bank statement, do accrual adjustments, and also print financial statements, etc.

SEMESTER - IV

PAPER 1: Introduction to python	CO1: Understand the basic working of Internet and its main services. CO2: Create web pages using HTML. CO3: Acquire knowledge about Cyber Crime and the facilities for secure communication
PAPER 2: Web TECHNOLOGY	CO1: Explain the history of the internet and related internet concepts that are vital in understanding web development. CO2: Discuss the insights of internet programming and implement complete application over the web. CO3: Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet. CO4: Utilize the concepts of JavaScript and Java CO5: Use web application development software tools i.e. Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites.
PAPER 3: OPERATING SYSYTEM	**CO 1:** Explain main components, services, types and structure of Operating Systems. **CO 2:** Apply the various algorithms and techniques to handle the various concurrency control issues. **CO 3:** Compare and apply various CPU scheduling algorithms for process

	execution. **CO 4:** Identify occurrence of deadlock and describe ways to handle it. **CO 5:** Explain and apply various memory, I/O and disk management techniques.
PAPER 4: ELECTIVE SOFTWARE TESTING	CO1: List a range of different software testing techniques and statergies and be able to apply specific(automated) unit testing method to the projects. CO2: Distinguish characterstics of structural testing methods. CO3: Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible. CO4: Discuss about the functional and system testing methods. CO5: Demonstrate various issues for object oriented testing.
PAPER 5: MULTIMEDIA SYSTEM	CO 1: Student will develop multimedia skills understanding the principal players of individual players in multimedia teams in developing projects Students will work with all aspects of video. CO 2: Students will work with all aspects of sound. CO 3:Students will work with all aspects of images. CO 4: students will learn the cost involved in multimedia planning, designing, and producing. CO 5:Students will learn ways to present their multimedia projects.
PAPER 6: Introduction to python	CO 1:Write, Test and Debug Python Programs Create CO 2:Implement Conditionals and Loops for Python Programs Apply CO 3:Use functions and represent Compound data using Lists, Tuples and Dictionaries Apply CO 4: Write proficiency in the handling of strings and functions. CO 5:Read and write data from & to files in Python and develop Application using Pygame.
PAPER 7: Web TECHNOLOGY	CO 1: Analyze a web page and identify its elements and attributes. CO 2: Create web pages using XHTML and Cascading Style Sheets. CO 3: Build dynamic web pages using JavaScript (Client side programming). CO 4: Design a basic elements of a home page. CO 5: Create XML documents and Schemas.
PAPER 8: MULTIMEDIA SYSTEM	CO1: Describe the architecture, I/O Storage retrieval technologies and object multimedia system. CO2: Implement various Compression and decompression techniques for various file formats. CO3: Use multimedia applications and user interface for effective animations. CO 4: Compare various data compression schemes. CO5: Analyze user interface for a given application.

SEMESTER-V

PAPER 1: Microsoft Visual Basic .NET	**CO1:** Understand an overview of computers and computer programming.
	CO2: Understand Visual Basic applications.
	CO 3: Understand how to perform operations and store results.
	CO 4: Understand additional Visual Basic controls.
	CO 5: Understand the concept of data-driven program execution flow control in Visual Basic programming.
PAPER 2: Fundamental Of Algorithms	**CO 1:** Define the basic concepts of algorithms and analyze the performance of algorithms.
	CO 2: Discuss various algorithm design techniques for developing algorithms.
	CO 3 :Discuss various searching, sorting and graph traversal algorithms.
	CO 4: Understand NP completeness and identify different NP complete problems.

	CO 5: Discuss various advanced topics on algorithms
PAPER 3: Introductions to Computer Network	**CO 1:** Understand computer network basics, network architecture, TCP/IP and OSI reference models Identify and understand various techniques and modes of transmission
	CO 2: Describe data link protocols, multi-channel access protocols and IEEE 802 standards for LAN
	CO 3: Understand network security and define various protocols such as FTP, HTTP, Telnet, DNS
	CO 4 : Discuss the elements and protocols of transport layer
	CO5: Define various examples of wireless communication system, standards related to 2G and 3G wireless networks.
PAPER 4: Elective 1: Artificial Intelligence	**CO 1:** Recognize the concept of AI and its applications in diverse fields.
	CO 2: Describe the key components of the Artificial Intelligence field.
	CO 3: Outline the concepts of Natural Language processing and Knowledge representation,
	CO 4: Classify Types of Learning and identify Expert Systems Architecture.
	CO5: Apply selected basic AI techniques; judge applicability of more advanced techniques
PAPER 5: Introduction to Cloud computing	**CO 1:** Understand the basic about cloud computing
	CO 2 : Learn about cloud computing architecture and types
	CO 3: Learn about cloud application platforms
	CO4: Apply the fundamental concepts in datacenters to understand the tradeoffs in power, efficiency and cost
	CO5: Analyze various cloud programming models and apply them to solve problems on the cloud.
PAPER 6: Microsoft Visual Basic .NET LAB	**CO 1:** Use Visual Studio IDE to design application.
	CO 2: Develop GUI Application using Form Controls and its events.
	CO 3: Apply Object Oriented concepts in GUI Application.
	CO 4: Use Data access controls to store data in Database and retrieve it.
	CO 5: Use Data Binding in GUI Application.
PAPER 7: Fundamental Of Algorithms LAB	**CO 1:** Argue the correctness of algorithms using inductive proofs and invariants.
	CO 2: Analyze worst-case running times of algorithms using asymptotic analysis.
	CO 3: Explain what competitive analysis is and to which situations it applies. Perform competitive analysis.
	CO 4: Compare between different data structures. Pick an appropriate data structure for a design situation.
	CO 5: Explain what an approximation algorithm is, and the benefit of using approximation algorithms. Be familiar with some approximation algorithms, including algorithms that are PTAS or FPTAS. Analyze the approximation factor of an algorithm.
PAPER 8: Introduction to Cloud computing LAB	Describe the principles of Parallel and Distributed Computing and evolution of cloud computing from existing technologies
	CO2 Implement different types of Virtualization technologies and Service Oriented Architecture systems
	CO3 Elucidate the concepts of NIST Cloud Computing architecture and its design challenges
	CO4 Analyse the issues in Resource provisioning and Securizty governance in clouds
	CO5 Choose among various cloud technologies for implementing applications

SEMESTER-VI

	INDUSTRIAL PROJECT
PROJECT REPORT	**CO 1:**Identify skills and capabilities that intersect effectively with the needs of industry
	CO 2: Apply and practice good communication skills in the workplace setting.
	CO 3: Reflect and evaluate on experiences that might lead to future employment.
	CO 4: Report research findings in written and verbal forms.
	CO 5: Demonstrate and apply research skills to complete a project

M.C.A.	
Programme Outcome (POs)	
PO1	Identify and analyze the computing requirements of a problem and to solve Them using computing principles.
PO2	Understand and Apply mathematical foundation, computing and domain knowledge for the Conceptualization of computing model of problems
PO3	Use suitable architecture or platform on design and implementation with respect to performance
PO4	Apply the management principles with computing knowledge to manage the projects in multi disciplinary environments.
PO5	Identify opportunities and use innovative ideas to create value and wealth for the betterment of the individual and society
Programme Specific Outcome (PSOs)	
PSO1	Understand the Opportunities and Challenges in Industry and to equip the students accordingly .
PSO2	Apply effectively the principles and methods of Computer Technology to a wide range of applications.
PSO3	Apply advanced algorithmic and mathematical concepts to the design and analysis of software.
PSO4	Get proficiency of computing ,and to prepare themselves for a Continued professional development.
PSO5	Expertise in developing application with required domain knowledge

Course Outcome

SEMESTER- 1

PAPER -1: Fundamental of Computers & Emerging Technologies	**CO 1:** Demonstrate the knowledge of the basic structure, components, features and generations of computers. **CO 2:** Describe the concept of computer languages, language translators and construct algorithms to solve problems using programming concepts. **CO 3:** Compare and contrast features, functioning & types of operating system and computer networks. **CO 4:** Demonstrate architecture, functioning & services of the Internet and basics of multimedia. **CO 5 :** Illustrate the emerging trends and technologies in the field of Information Technology.

PAPER-2: Problem Solving using C	**CO1:**Describe the functional components and fundamental concepts of a digital computer system including number systems. **CO 2 :** Construct flowchart and write algorithms for solving basic problems **CO 3:** Write 'C' programs that incorporate use of variables, operators and Expressions along with data types. **CO 4:** Write simple programs using the basic elements like control statements, Functions, arrays and strings. **CO 5:** Write advanced programs using the concepts of pointers, structures, unions and enumerated data types..
PAPER- 3: Principles of Management & Communication	**CO 1:** Describe primary features, processes and principles of management. **CO 2 :**Explain functions of management in terms of planning, decision making and organizing. **CO 3:** Illustrate key factors of leadership skill in directing and controlling business resources and processes. **CO 4:** Exhibit adequate verbal and non-verbal communication skills . **CO 5:**Demonstrate effective discussion, presentation and writing skills.
PAPER-4: Discrete Mathematics	**CO 1:** Use mathematical and logical notation to define and formally reason about basic discrete structures such as Sets, Relations and Functions. **CO 2:** Apply mathematical arguments using logical connectives and quantifiers to check the validity of an argument through truth tables and propositional and predicate logic. **CO 3:** Identify and prove properties of Algebraic Structures like Groups, Rings and Fields . **CO 4:** Formulate and solve recurrences and recursive functions. **CO 5 :** Apply the concept of combinatory to solve basic problems in discrete mathematics.
PAPER- 5: Computer Organization & Architecture	**CO 1:** Describe functional units of digital system and explain how arithmetic and logical operations are performed by computers. **CO 2**: Describe the operations of control unit and write sequence of instructions for carrying out simple operation using various addressing modes. **CO 3:** Design various types of memory and its organization. **CO 4:** Describe the various modes in which IO devices communicate with CPU and memory. **CO 5**: List the criteria for classification of parallel computer and describe various Architectural schemes.
PAPER -6: Problem Solving using C Lab	**CO1:** Write, compile, debug and execute programs in a C programming environment. **CO2 :** Write programs that incorporate use of variables, operators

	and Expressions along with data types. CO3 : Write programs for solving problems involving use of decision control structures and loops. CO4: Write programs that involve the use of arrays, structures and user defined functions. CO5 :Write programs using graphics and file handling operations.
PAPER -7: Computer Organization & Architecture Lab	CO1: Design and verify combinational circuits (adder, code converter, Decoder, multiplexer) using basic gates. CO2 : Design and verify various flip-flops. CO3 : Design I/O system and ALU. CO4 : Demonstrate combinational circuit using simulator. CO5 : Exemplify in a better way the I/O and memory organization.
PAPER-8: Professional Communication Lab	CO1: Develop the ability to work as a team member as an integral activity in the workplace. CO2: Increase confidence in their ability to read,comprehend,organize, and retain written information. Improve reading fluency. CO3: Write coherent speech outlines that demonstrate their ability to use organizational formats with a specific purpose; Deliver effective speeches that are consistent with and appropriate for the audience and purpose. CO4: Develop proper listening skills; articulate and enunciate words and sentences clearly and efficiently. CO5: Show confidence and clarity in public speaking projects; be schooledin preparation and research skills for oral presentations.

SEMESTER- 2

PAPER- 1: Theory of Automata & Formal Languages	CO1: Define various types of automata for different classes of formal languages and explain their working. CO2: State and prove key properties of formal languages and automata. CO3: Construct appropriate formal notations (such as grammars,

	acceptors, transducers and regular expressions) for given formal languages. **CO 4:** Convert among equivalent notations for formal languages. **CO 5:** Explain the significance of the Universal Turing machine, Church-Turing thesis and concept of Undecidability.
PAPER- 2: Object Oriented Programming	**CO1 :**List the significance and key features of object oriented programming and modeling using UML. **CO 2:** Construct basic structural, behavioral and architectural models using object oriented software engineering approach. **CO3 :**Integrate object oriented modeling techniques for analysis and design of a system. **CO 4:** Use the basic features of data abstraction and encapsulation in C++ programs. **CO 5:** Use the advanced features such as Inheritance, polymorphism and virtual function in C++ programs.
PAPER- 3: Operating Systems	**CO 1:** Explain main components, services, types and structure of Operating Systems. **CO 2:** Apply the various algorithms and techniques to handle the various concurrency control issues. **CO 3:** Compare and apply various CPU scheduling algorithms for process execution. **CO 4:** Identify occurrence of deadlock and describe ways to handle it. **CO 5:** Explain and apply various memory, I/O and disk management techniques.
PAPER- 4: Database Management Systems	**CO 1:** Describe the features of a database system and its application and compare various types of data models. **CO 2:** Construct an ER Model for a given problem and transform it into a relation database schema. **CO 3:** Formulate solution to a query problem using SQL Commands, relational algebra, tuple calculus and domain calculus. **CO 4:** Explain the need of normalization and normalize a given relation to the desired normal form. **CO 5:** Explain different approaches of transaction processing and concurrency control.
PAPER -5: Data Structures & Analysis of Algorithms	**CO 1:** Explain the concept of data structure, abstract data types, algorithms, analysis of algorithms and basic data organization schemes such as arrays and linked lists.

	CO 2: Describe the applications of stacks and queues and implement various operations on them using arrays and linked lists. CO 3: Describe the properties of graphs and trees and implement various operations such as searching and traversal on them. CO 4: Compare incremental and divide-and-conquer approaches of designing algorithms for problems such as sorting and searching. CO 5: Apply and analyze various design approaches such as Divide-and-Conquer, greedy and dynamic for problem solving .
PAPER -6: Cyber Security*	CO 1: Identify and analyze nature & inherent difficulties in the security of the Information System. CO 2: Analyze various threats and attacks, corresponding counter measures and various vulnerability assessment and security techniques in an organization. CO 3: Applications of cyber based policies and use of IPR and patent law for software-based design. Define E-commerce types and threats to E commerce. CO 4: Explain concepts and theories of networking and apply them to various situations, classifying networks, analyzing performance. CO 5: Measure the performance and troubleshoot cyber security systems
PAPER- 7: Object Oriented Programming Lab	CO1: Use the Concept of Data Abstraction and Encapsulation in C++ programs. CO2: Design and Develop C++ program using the concept such as polymorphism, virtual function, exception handling and template. CO3: Apply object oriented techniques to analyze, design and develop a complete solution for a given problem. CO4: Develop the applications through Java programming. CO5: Design web based applications.
PAPER -8: DBMS Lab	CO1: Use the Concept of Data Abstraction and Encapsulation in C++ programs. CO2: Write SQL commands to query a database. CO3: Write PL/SQL programs for implementing stored procedures, stored functions, cursors, trigger and packages. CO4: Apply SQL to insert, delete and retrieve data from databases. CO5: Implement other database objects such as Views.

PAPER- 9: Data Structures & Analysis of Algorithms Lab	CO1: Write and execute programs to implement various searching and sorting algorithms. CO2: Write and execute programs to implement various operations on two-dimensional arrays. CO3: Implement various operations of Stacks and Queues using both arrays and linked lists data structures. CO4: Implement graph algorithm to solve the problem of minimum spanning tree. CO5: Analyze worst-case running times of algorithms using asymptotic analysis.

SEMESTER- 3

PAPER -1: **Artificial Intelligence**	**CO 1:** Define the meaning of intelligence and study various intelligent agents. **CO 2:** Understand, analyze and apply AI searching algorithms in different problem domains. **CO 3:** Study and analyze various models for knowledge representation. **CO 4:** Understand the basic concepts of machine learning to analyze and implement widely used learning methods and algorithms. **CO 5 :** Understand the concept of pattern recognition and evaluate various classification and clustering techniques.
PAPER- 2: **Software Engineering**	**CO 1:** Explain various software characteristics and analyze different software Development Models. **CO 2:** Demonstrate the contents of a SRS and apply basic software quality assurance practices to ensure that design, development meet or exceed applicable standards. **CO 3:** Compare and contrast various methods for software design. **CO 4:** Formulate testing strategy for software systems, employ techniques such as unit testing, Test driven development and functional testing. **CO 5:** Manage software development process independently as well as in teams and make use of various software management tools for development, maintenance and analysis.
PAPER -3: **Computer Network**.	**CO 1:** Describe communication models TCP/IP, ISO-OSI model, network topologies along with communicating devices and connecting media. **CO 2:** Apply knowledge of error detection, correction and learn concepts of flow control along with error control. **CO 3:** Classify various IP addressing techniques, subnetting along with network routing protocols and algorithms. **CO 4:** Understand various transport layer protocols and their design considerations along with congestion control to maintain Quality of Service. **CO 5**: Understand applications-layer protocols and elementary standards of cryptography and network security.

PAPER- 4: **Elective 1** **Cryptography & Network Security**	**CO 1:** Understand various security attacks and their protection mechanism. **CO 2:** Apply and analyze various encryption algorithms. **CO 3:** Understand functions and algorithms to authenticate messages and study and apply different digital signature techniques. **CO 4**: Analyze different types of key distributions. **CO 5:** Study and appraise different IP and system security mechanism.
PAPER -4: **Elective -1** **Data Warehousing & Data Mining**	**CO1:** Demonstrate knowledge of Data Warehouse and its components. **CO2:** Discuss the process of Warehouse Planning and Implementation. **CO3:** Discuss and implement various supervised and Non supervised learning algorithms on data. **CO4:** Explain the various process of Data Mining and decide best according to type of data. **CO5:** Explain process of knowledge discovery in database (KDD). Design Data Mining model.
PAPER- 4: **Elective-1** **Software Project Management**	**CO 1:** Identify project planning objectives, along with various cost/effort estimation models. **CO 2:** Organize & schedule project activities to compute critical path for risk analysis **CO 3:** Monitor and control project activities. **CO 4:** Formulate testing objectives and test plan to ensure good software quality under SEICMM **CO 5:** Configure changes and manage risks using project management tools
PAPER- 4: **Elective-1** **Cloud Computing**	**CO 1:** Understand the concepts of Cloud Computing, key technologies, strengths and limitations of cloud computing. **CO 2:** Develop the ability to understand and use the architecture to compute and storage cloud, service and models. **CO 3:** Understand the application in cloud computing. **CO 4:** Learn the key and enabling technologies that help in the development of cloud. **CO 5:** Explain the core issues of cloud computing such as resource management and security.
PAPER- 4: **Elective-1** **Compiler Design**	**CO 1:** Acquire knowledge of different phases and passes of the compiler and also able to use the compiler tools like LEX, YACC, etc. Students will also be able to design different types of compiler tools to meet the requirements of the realistic constraints of compilers. **CO 2:** Understand the parser and its types i.e. Top-Down and Bottom-up parsers and construction of LL, SLR, CLR, and LALR parsing table. **CO 3:** Implement the compiler using syntax-directed translation method and get knowledge about the synthesized and inherited attributes. **CO 4:** Acquire knowledge about run time data structure like symbol table organization and different techniques used in that. **CO 5:** Understand the target machine's run time environment, its instruction set for code generation and techniques used for code optimization.
PAPER -5: **Elective – 2** **Web Technology**	**CO 1:** Apply the knowledge of HTML and CSS to develop web application and analyze the insights of internet programming to implement complete application over the web. **CO 2:** Understand, analyze and apply the role of JavaScript in the workings of the web and web applications. **CO 3:** Understand, analyze and build dynamic web applications using servlet and JSP. **CO 4:** Develop Spring-based Java applications using Java configuration, XML configuration, annotation-based configuration, beans and their scopes, and properties.

	CO 5: Develop web application using Spring Boot and RESTFul Web Services.
PAPER -5: Elective – 2 **Big Data**	**CO1**: Demonstrate knowledge of Big Data Analytics concepts and its applications in business. **CO2**: Demonstrate functions and components of Map Reduce Framework and HDFS. **CO3:** Develop queries in NoSQL environment. **CO4:** Explain process of developing Map Reduce based distributed processing applications. **CO5:** Explain process of developing applications using HBASE, Hive, Pig etc.
PAPER- 5: Elective – 2 **Simulation and Modelling**	**CO 1:** Study the concept of system, its components and types. **CO 2:** Understand and analyze nature and techniques of major simulation models. **CO 3:** Study and analyze the idea of continuous and discrete system simulation. **CO 4:** Understand the notion of system dynamics and system dynamics diagrams. **CO 5:** Finding critical path computation and understanding PERT networks.
PAPER -5: Elective – 2 **Software Testing & Quality Assurance**	**CO 1:** Test the software by applying testing techniques to deliver a product free from bugs. **CO 2:** Investigate the scenario and select the proper testing technique. **CO 3:** Explore the test automation concepts and tools and estimation of cost, schedule based on standard metrics. **CO 4:** Understand how to detect, classify, prevent and remove defects. **CO 5:** Choose appropriate quality assurance models and develop quality. Ability to conduct formal inspections, record and evaluate results of inspections.
PAPER- 5: Elective – 2 **Digital Image Processing**	**CO 1**: Explain the basic concepts of two-dimensional signal acquisition,sampling,quantization and color model. **CO 2:** Apply image processing techniques for image enhancement in both the spatial and frequency domains. **CO 3:** Apply and compare image restoration techniques in both spatial and frequency domain. **CO 4:** Compare edge based and region based segmentation algorithms for ROI extraction. **CO 5:** Explain compression techniques and descriptors for image processing.
PAPER- 6: Artificial Intelligence Lab	**CO 1:** Study and understand AI tools such as Python / MATLAB. **CO 2:** Apply AI tools to analyze and solve common AI problems. **CO 3 :**Implement and compare various AI searching algorithms. **CO 4:** Implement various machine learning algorithms. **CO 5:** Implement various classification and clustering techniques.
PAPER- 7: Software Engineering Lab	**CO 1 :**Identify ambiguities, inconsistencies and incompleteness from a requirements specification and state functional and non-functional requirement. **CO 2 :**Identify different actors and use cases from a given problem statement and draw use case diagram to associate use cases with different types of relationship. **CO 3:** Draw a class diagram after identifying classes and association among them. **CO 4:** Graphically represent various UML diagrams and associations among

	them and identify the logical sequence of activities undergoing in a system, and represent them pictorially. **CO 5:** Able to use modern engineering tools for specification, design, implementation and testing.
PAPER- 8: Mini Project**	

SEMESTER- 4

Elective – 3 **Privacy and Security in Online Social Media**	**CO 1:** Understand working of online social networks. **CO 2:** Describe privacy policies of online social media. **CO 3** :Analyse countermeasures to control information sharing in Online social networks. **CO 4:** Apply knowledge of identity management in Online social networks. **CO 5:** Compare various privacy issues associated with popular social media.
Elective – 3 **Soft Computing**	**CO 1:** Recognize the need of soft computing and study basic concepts and techniques of soft computing. **CO 2:** Understand the basic concepts of artificial neural network to analyze widely used neural networks. **CO 3:** Apply fuzzy logic to handle uncertainty in various real-world problems. **CO 4 :**Study various paradigms of evolutionary computing and evaluate genetic algorithm in solving optimization problems. **CO 5:** Apply hybrid techniques in applications of soft computing.
Elective – 3 **Pattern Recognition**	**CO 1:** Study of basics of Pattern recognition. Understand the designing principles and Mathematical foundation used in pattern recognition. **CO 2:** Analysis the Statistical Patten Recognition. **CO 3** :Understanding the different Parameter estimation methods. **CO 4:** Understanding the different Nonparametric Techniques. **CO 5:** Understand and Make use of unsupervised learning and Clustering in Pattern recognition.
Elective – 3 **Data Analytics**	**CO1:** Describe the life cycle phases of Data Analytics through discovery, planning and building. **CO2:**Understand and apply Data Analysis Techniques. **CO3:** Implement various Data streams. **CO4:** Understand item sets, Clustering, frame works & Visualizations. **CO5:** Apply R tool for developing and evaluating real time applications.
Elective – 3 **Software Quality Engineering**	**CO 1:**Understand basic concepts of Software Quality along with its documents and process. **CO 2:** Apply knowledge of Software Quality in various types of software. **CO 3:** Compare the various reliability models for different scenarios. **CO 4:** Illustrate the software Quality Planning and Assurance. **CO 5:**Make use of various testing techniques in software implementation.
Elective – 4 **Blockchain Architecture**	**CO1:** Study and understand basic concepts of blockchain architecture. **CO2 :**Analyze various requirements for consensus protocols. **CO3:** Apply and evaluate the consensus process. **CO4 :**Understand the concepts of Hyperledger fabric. **CO5** :Analyze and evaluate various use cases in financial software and supply chain.
Elective – 4 **Neural Networks**	**CO 1:** Study of basic concepts of Neuro Computing, Neuroscience and ANN. Understand the different supervised and unsupervised and neural networks performance. **CO 2:** Study of basic Models of neural network. Understand the Perception network.

	and Compare neural networks and their algorithm. **CO 3:** Study and Demonstrate different types of neural network. Make use of neural networks for specified problem domain. **CO 4:** Understand and Identify basic design requirements of recurrent network and Selforganizing feature map. **CO 5** :Able to understand the some special network. Able to understand the concept of Soft computing.
Elective – 4 **Internet of Things**	**CO 1:** Demonstrate basic concepts, principles and challenges in IoT. **CO 2:** Illustrate functioning of hardware devices and sensors used for IoT. **CO 3:** Analyze network communication aspects and protocols used in IoT. **CO 4 :** Apply IoT for developing real life applications using Ardunio programming. **CO 5 :** To develop IoT infrastructure for popular applications
Elective – 4 **Modern Application Development**	**CO 1 :**Understand the fundamental of Kotlin Programing for Android Application Development. **CO 2:** Describe the UI Layout and architecture of Android Operating System. **CO 3:** Designing android application using Jetpack Library based on MVVM Architecture. **CO 4 ;**Developing android application based on REST API using Volley and Retrofit Library. **CO 5:**Ability to debug the Performance and Security of Android Applications.
Elective – 4 **Distributed Database Systems**	**CO 1 :**Understand theoretical and practical aspects of distributed database systems. **CO 2:** Study and identify various issues related to the development of distributed database system. **CO 3:** Understand the design aspects of object-oriented database system and related development. **CO 4:** Equip students with principles and knowledge of distributed reliability. **CO 5:** Equip students with principles and knowledge of parallel and object-oriented databases.
Elective – 5 **Mobile Computing**	**CO 1:** Study and aware fundamentals of mobile computing. **CO 2 :**Study and analyze wireless networking protocols, applications and environment. **CO 3 :**Understand various data management issues in mobile computing. **CO 4 :**Analyze different type of security issues in mobile computing environment. **CO 5 :**Study, analyze, and evaluate various routing protocols used in mobile computing.
Elective – 5 **Computer Graphics and Animation**	**CO 1:** Understand the graphics hardware used in field of computer graphics. **CO 2:** Understand the concept of graphics primitives such as lines and circle based on different algorithms. **CO 3:** Apply the 2D graphics transformations, composite transformation and Clipping concepts. **CO 4** :Apply the concepts and techniques used in 3D computer graphics, including viewing transformations, projections, curve and hidden surfaces. **CO 5:** Perform the concept of multimedia and animation in real life.
Elective – 5 **Natural Language Processing**	**CO 1:** Study and understand basic concepts, background and representations of natural language. **CO 2:** Analyze various real-world applications of NLP.

	CO 3 : Apply different parsing techniques in NLP. **CO 4:** Understand grammatical concepts and apply them in NLP. **CO 5:** Apply various statistical and probabilistic grammar methods to handle and evaluate ambiguity.
Elective – 5 **Machine Learning Techniques**	**CO 1:** To understand the need for machine learning for various problem solving. **CO 2 :**To understand a wide variety of learning algorithms and how to evaluate models generated from data. **CO 3 :**To understand the latest trends in machine learning. **CO 4 :**To design appropriate machine learning algorithms and apply the algorithms to a real-world problems. **CO 5 :**To optimize the models learned and report on the expected accuracy that can be achieved by applying the models.
Elective – 5 **Quantum Computing**	**CO1:** Distinguish problems of different computational complexity and explain why certain problems are rendered tractable by quantum computation with reference to the relevant concepts in quantum theory. **CO 2 :**Demonstrate an understanding of a quantum computing algorithm by simulating it on a classical computer, and state some of the practical challenges in building a quantum computer. **CO 3:** Contribute to a medium-scale application program as part of a co-operative team, making use of appropriate collaborative development tools (such as version control systems). **CO 4 :**Produce code and documentation that is comprehensible to a group of different programmers and present the theoretical background and results of a project in written and verbal form. **CO 5:** Apply knowledge, skills, and understanding in executing a defined project of research, development, or investigation and in identifying and implementing relevant outcomes.

Faculty of Education	
B.Ed.	
Programme Outcome (POs)	
PO1	To develop proper altitudes towards teaching as a result of which he will be able to maximize the achievements from both the material and human resources.
PO2	To develop a good command of the subject matter of the assignment given to him in the colleges/universities.
PO3	To develop the capacity to extend the resources of the school by means of improvisation of instructional facilities.
Programme Specific Outcome (PSOs)	
PSO1	Enable the prospective teachers to understand the nature, purpose and philosophy of secondary education.
PSO2	Enable them to acquire, competencies relevant to stage specific pedagogy, curriculum development, its transaction and evaluation.
PSO3	Enable them to make pedagogical analysis of the subjects they are to teach at the secondary stage; develop skills for guidance and counseling.
PSO4	Develop communication skills and use of modern information technology for school purpose.
PSO5	Acquaint them with research in education including action research.

B.Ed. First Semester Program Course Outcomes	
Course 1 (Philosophical and Sociological Perspective in Education)	
CO1	To understand and appreciate the nature and the purpose of education, their practical ramifications in the school context.
CO2	About the relationship between philosophy and education and implication of philosophy oneducation.
CO3	The concept of education, personality of great educators and innovative practices in education.
CO4	The crisis and challenges in the emerging Indian society.
CO5	The means and measures towards the promotion of national integration and protection ofhuman rights.
Course 2 (Learning and Teaching)	
CO1	To help the students teachers to distinguish between communication and instruction so that can develop and design and sound instructional system.
CO2	To acquaint students teachers with levels, strategies and models of teaching for future improvement.
CO3	Acquire the knowledge of principles and stages of teaching.
CO4	Understand the learner and teacher centered approaches of classroom teaching.
CO5	Understand the teaching as a profession.
Course 3 (Language across the Curriculum)	
CO1	Communicate Correctly and confidently.
CO2	Develop language proficiency.
CO3	Develop skills of presentation techniques.
CO4	To develop Proficiency in Speaking & writing the Listening ability- the reading ability.
Course 4 (School Internship)	
CO1	Understanding the Internship School and the community around.
CO2	Observation of classroom teaching of peer student-teachers.
CO3	Preparation of case study of the internship school and the innovative activities that the school undertakes.
CO4	Mobilisation and development of teaching-learning resources.
CO5	Undertake action research project on at least one problem area of schooling.
B.Ed. Second Semester Program Course Outcomes	
Course 1 (Development of Learner)	

CO1	To appreciate the role of educational psychology in teaching and learning.
CO2	To acquire theoretical perspectives and develop an understanding of dimensions and stages of human development and developmental tasks.
CO3	To understand a range of cognitive capacities and affective processes in human learners.
CO4	To reflect on their own implicit understanding of the nature and kinds of learning.
CO5	Gain an understanding of different theoretical perspectives on learning with a focus on cognitive views of learning as well as social–constructivist theories.
Course 2/A (हिंदी भाषा का परिचय)	
CO1	भाषा के अलग–अलग भूमिकाओं को जानना।
CO2	भाषा सीखने की सृजनात्मक प्रक्रिया को जानना।
CO3	भाषा के स्वरूप और व्यवस्था को समझना।
CO4	पाठ्यचर्या, पाठ्यक्रम और पाठ्यपुस्तक का विश्लेषण कर कक्षा विशेष और बच्चों की समझ के अनुसार ढालना।
CO5	भाषा और साहित्य के संबंध को जानना हिंदी भाषा के विविध रूपों और अभिव्यक्तियों को जानना।
Course 2/B (Basic of English Language)	
CO1	Understand the different roles of language.
CO2	Understand the relation between literature and language.
CO3	Understand the use of language in context, such as grammar and vocabulary.
CO4	Understand the importance of home language and school language and the role of mother tongue in education.
CO5	Develop an understanding of the nature of language system.
Course 2/C (Basic of Language- Sanskrit)	
CO1	To develop an understanding of the nature of language system.
CO2	To understand the role and importance of Sanskrit and its cultural background.
CO3	To understand the use of language in context, such as grammar and vocabulary in context
CO4	To understand about the methods of teaching Sanskrit.
CO5	To understand the process of language assessment.
Course 2/D (Basics of Life Science)	
CO1	Develop insight on the meaning and nature of biological science for determining aims and strategies of teaching-learning.
CO2	Appreciate that science is a dynamic and expanding body of knowledge.
CO3	Identify and relate everyday experiences with learning biological science.
CO4	Appreciate various approaches of teaching-learning of biological science
CO5	Explore the process skill in science and role of laboratory in teaching–learning.
Course 2/E (Basics of Mathematics)	
CO1	Develop insight into the meaning, nature, scope and objective of mathematics.
CO2	Appreciate the importance of mathematics laboratory in learning

	mathematics.
CO3	Construct appropriate assessment tools for evaluating mathematics learning.
CO4	Develop competencies for teaching-learning mathematics through various measures.
CO5	Focus on understanding the nature of children's mathematical thinking through direct.
Course 3/A (Basics of Social Science)	
CO1	To develop an understanding of the nature of Social Sciences, both of individual disciplines comprising Social Sciences, and also of Social/Sciences as an integrated/ interdisciplinary area of study.
CO2	To acquire a conceptual understanding of the processes of teaching and learning Social Sciences.
CO3	To enable student teachers examine the prevailing pedagogical practices in classrooms critically and to reflect on the desired changes.
CO4	To acquire basic knowledge and skills to analyse and transact the Social Sciences curriculum effectively following wide-ranging teaching learning strategies in order to make it enjoyable and relevant for life
Course 3/B (Physical Science)	
CO1	Gain insight on the meaning and nature of physical science for determining aims and strategies of teaching-learning
CO2	Appreciate various approaches of teaching-learning of physical science
CO3	Use effectively different activities/demonstrations/laboratory experiences for teaching learning of physical science
CO4	Integrate in physical science knowledge with other school subjects
Course 3/C (Basics of Commerce)	
CO1	Develop insight into the meaning, nature, scope and objective of Commerce.
CO2	Channelize, evaluate, explain and reconstruct their thinking about Commerce.
CO3	Appreciate the importance of Commerce in understanding markets.
CO4	Construct appropriate assessment tools for evaluating Commerce learning.
CO5	Develop competencies for teaching-learning Commerce through various measures.
Course 6 (Gender, School and Society)	
CO1	This course will enable the students to develop basic understanding and familiarity with key concepts–gender, gender bias, gender stereotype, empowerment, gender parity, equity and equality, patriarchy and feminism
CO2	Understand the gradual paradigm shift from women's studies to gender studies and some important landmarks in connection with gender and education in the historical and contemporary period
CO3	Learn about gender issues in school, curriculum, textual materials across disciplines, pedagogical processes and its intersection with class, caste, religion and region.
CO4	Understand how gender, power and sexuality relate to education (in terms of access, curriculum and pedagogy)
Course 8 (Drama, Arts and Aesthetics)	

CO1	Understanding basics of different Art forms – impact of Art forms on the human mind.
CO2	Enhance artistic and aesthetic sensibility among learners to enable them to respond to the beauty in different Art forms, through genuine exploration, experience and free expression
CO3	Enhance skills for integrating different Art forms across school curriculum at secondary level.
CO4	Enhance awareness of the rich cultural heritage, artists and artisans.
Course 9 (Critical Understanding of ICT)	
CO1	Understand the meaning, components, functions of computer and its historical backgrounds
CO2	Develop skill in handling computer and using word documents.
CO3	Understand the Educational implications of Power Point Presentation and its use in classroom context
CO4	Develop skill in computation, analysis and interpretation of data by using Excel Spread sheets.
CO5	Understand the applications of Information Technology in the field of teacher education programme and training.
B.Ed. Third Semester Program Course Outcomes	
Course 1 (Assessment for Learning)	
CO1	Gain a critical understanding of issues in assessment and evaluation (from a constructivist paradigm).
CO2	Become cognizant of key concepts, such as formative and summative assessment, evaluation and Measurement, test, examination
CO3	Evolve realistic, comprehensive and dynamic assessment procedures that are able to keep the whole student in view
CO4	Evolve realistic, comprehensive and dynamic assessment procedures that are able to keep the Whole student in view.
CO5	Engage with learners' minds in order to further learning in various dimensions.
Course 2 (Understanding the Self and Yoga)	
CO1	Develop a holistic and integrated understanding of the human self and personality.
CO2	Develop social relational sensitivity and effective communication skills.
CO3	Create interest for the practice of yogasanas and meditations through which they learn the skills/art of self-control, concentration, peace and relaxation to avoid ill effects of stress, strain and fatigue of routine life;
CO4	Develop positive attitude towards health as individual and be collectively responsible to achieve it.
Course 3 Internship (Practice Teaching)	
CO1	Equipping the prospective teachers with necessary pedagogic skills
CO2	Developing proper attitudes towards teaching:
CO3	Enabling the teacher to acquire understanding of child psychology
CO4	Enabling teachers to make proper use of instructional facilities
CO5	Enabling teachers to understand the significance of individual differences of child and to take appropriate steps for their optimum development:
B.Ed. Fourth Semester	

Program Course Outcomes	
Course 1 (Contemporary India and Education)	
CO1	Gain a critical understanding of issues in historical Foundation of Indian Education.
CO2	Become cognizant of key concepts, such as Education Commissions and Committees, Policy on Education.
CO3	Become the use of a Educational provision in Indian constitution
Course 2/A (हिंदी भाषा का शिक्षण)	
CO1	प्रशिक्षुओं द्वारा विषय षिक्षण में की जाने वाली सामान्य त्रुटियों के निवारण हेतु उपचारात्मक शिक्षण उपलब्ध कराना।
CO2	प्रशिक्षुओं को विषय शिक्षण के विषिष्ट उद्देष्यों एवं विषय के पाठ्यक्रम में स्थान का बोध कराना।
CO3	प्रशिक्षुओं को हिन्दी शिक्षण की विभिन्न विधियों एवं तकनीकियों से अवगत कराना।
Course 2/B Pedagogy of Language (English)	
CO1	To familiar the student- teachers with elements of English language
CO2	To enable the student-teacher to develop linguistic skills among their pupils.
CO3	To enable the student- teachers to make effective use of instructional aids in teaching of English.
Course 2/C Pedagogy of Language (Sanskrit)	
CO1	प्रशिक्षुओं को सैद्वान्तिक संस्कृत व्याकरण का ज्ञान पद्रान करते हुए, सिद्वान्तों के प्रयोग करने का अवसर प्रदान करना।
CO2	प्रशिक्षुओं को संस्कृत भाषा के ध्वनि तत्व से परिचित कराना।
CO3	प्रशिक्षुओं को षब्दों के विभिन्न रूपों का ज्ञान प्रदान कराना।
Course 2/D (Pedagogy of Life Science)	
CO1	To develop awareness about development in the area of teaching and learning of Life Science at the national and international level.
CO2	To develop competencies in the prospective teachers related of Life science at the lower secondary level with specific reference to Indian school conditions
CO3	To orient prospective teachers in specific educational aspects of science and Technology Education e.g. general concept of Life Science, aims and objectives of Life science, pedagogical analysis of contents in life science at the lower secondary level, transaction of contents, methods of teaching, evaluation etc.
Course 2/E (Pedagogy of Mathematics)	
CO1	To acquaint pupil-teachers with the methods and techniques of teaching Mathematics.
CO2	To help pupil-teachers in the pedagogical analysis of various concepts in Mathematics.
CO3	To help pupil-teachers in instructional planning and development of relevant material for the teaching of Mathematics.
Course 3/A (Pedagogy of Social Sciences)	
CO1	Appreciate the need for learning History, Geography, Civics, Sociology and Economics either as separate discipline or as any integrated discipline.
CO2	Develop knowledge about the basic principles governing the construction

	of a social science.
CO3	Develop the classroom skills needed for teaching of social science/ social studies either as a separate or as an interacted discipline using modern methodology.
CO4	Acquire the competence to plan for instruction.
CO5	Develop the ability to organize co-curricular activities and community resources for promoting social science / social studies learning.
Course 3/B (Pedagogy of Physical Science)	
CO1	Develop a broad understanding of the principles and procedures used in modern science education.
CO2	Develop their skills necessary for preparing international accessories.
CO3	Develop their essential skills for practicing modern science education.
Course 3/C (Teaching of Commerce)	
CO1	To develop understanding of principles of commerce.
CO2	To acquire knowledge of present commerce conditions in India.
CO3	To acquire desirable attitudes and to become effective instrument of economics change.
CO4	To acquire appropriate professional behaviour and to develop commitment to profession.
Course 4A (Guidance And Counselling)	
CO1	Understand the meaning, nature and scope of guidance.
CO2	Develop acquaintance with various techniques of group guidance.
CO3	Understand of various procedures of organizing various guidance services.
CO4	Understand the meaning, nature and scope of counselling.
CO5	Analyse the relationship between guidance and counselling.
Course 4B (Health and Physical Education)	
CO1	Help them to understand the concept of holistic health, its various dimensions and determinants and the importance of sports and yoga for development of holistic health
CO2	Develop positive attitude towards health as individual and be collectively responsible to achieve it.
CO3	Equip them to know their health status, identify health problems and be informed for taking remedial measures;
CO4	Sensitise, motivate and help them to acquire the skills for physical fitness, learn correct postural habits and activities for its development;
CO5	Create interest for the practice of yogasanas and meditations through which they learn the skills/art of self-control, concentration, peace and relaxation to avoid ill effects of stress, strain and fatigue of routine life;
Course 4C (School Administration and Management)	
CO1	Understand the nature of school as an organization, its components and dimensions.
CO2	Know teacher's roles and responsibilities with respect to academic and co-curricular activities and understand his place and position in the school.
CO3	Know that components of classroom climate and to help them to understand their effects on pupil's development.

CO4	To acquaint the student teachers with the concept of educational administration & Management.
CO5	To enable the students to understand the administration of education at different levels.
Course 5 (Creating an Inclusive School)	
CO1	Demonstrate knowledge of different perspectives in the area of education of children with disabilities.
CO2	Reformulate attitudes towards children with special needs.
CO3	Plan need-based programmes for all children with varied abilities in the classroom.
CO4	Use specific strategies involving skills in teaching special needs children in inclusive classrooms.
Course 6 (Reading and Reflecting on Texts)	
CO1	Read and respond to a verity of texts in different ways
CO2	Enhance their capacity as readers and writers.
CO3	Learn to think together.

Program - B.El.Ed.

Program Outcomes
PROGRAMME OUTCOMES FOR B.El.Ed. (8-Sem) On successful completion of the four semester **B.El.Ed.**programme, pupil teachers will be able to develop- **1.Teaching competency:** Know, select and use of learner-centered teaching methods, understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum, necessary competencies for organizing learning experiences, select and use of appropriate assessment strategies for facilitating learning. **2. Pedagogical skills:** Applying teaching skills and dealing with classroom problems. **3. Teaching through Non-conventional Modes:** Evolving a system of education which enhances the potential of every learner to acquire, retain and transform knowledge leading to wisdom society through creative, experiential and joyful modes of learning. **4. Critical Thinking:** Analysis of Curriculum, construction of blue print, selecting appropriate teaching strategies according to needs of students and conducting action

research to solve classroom problems.
5. Effective Communication: Presenting seminar before peer students and teachers and practicing communication skills through various linguistic activities and applying it for better classroom communication.
6. Sensitivity towards Inclusion: Identifying the diversities and dealing it in inclusive classrooms environment, guidance and counseling programmes for disabled students.
7. Effective Citizen Ethics: Understand different values, morality, social service and accept responsibility for the society.
8. Self-directed Learning: Preparing scripts for seminars, lesson plans and online content.
9. Social Resilience: Understand about social entities and enable to cope up with adverse conditions of life.
10. Physical Development: Practice yoga, physical education and games and sports.
11. Team Work: Enable to work as a member or leader in diverse teams and in multidisciplinary settings by following the principles of collaborative learning, cooperative learning and team teaching.

Program Specific Outcomes

PSO1	Enable the perspective teachers to understand the nature, purpose and philosophy of education.	**Level of attainment**
PSO2	Develop among perspective teachers an understanding of psychology of their pupils.	
PSO3	Enable to acquire, competencies relevant to stage specific pedagogy, curriculum development, its transaction and evaluation.	
PSO4	Development aesthetic sensibilities.	
PSO5	Acquaint them with factors and forces affecting educational system and classroom situation.	

Program Course Outcomes

First Semester

BLF 1.1 (Child Development)

CO1	Understand the concept of Human Development.	**Level of attainment**
CO2	understand a range of cognitive capacities and affective processes in human learners	
CO3	understand the influences of heredity and environment on Human Development.	
CO4	become aware of different contexts of learning and situate	

	schools as a special environment for learning;	
CO5	understand the Children with special Needs	
BLF 1.2 NATURE OF LANGUAGE		
CO1	विद्यार्थियों को सैद्वान्तिक व्याकरण का ज्ञान प्रदान करते हुए सिद्वान्तों के प्रयोग करने का अवसर प्रदान करना।	**Level of attainment**
CO2	विद्यार्थियों को भाषा के ध्वनि तत्व से परिचित कराना।	
CO3	विद्यार्थियों को भाषायी व्यवहार के विविध पक्षों से परिचित कराना।	
CO4	विद्यार्थियों में भाषा के प्रति सामान्य अनुराग उत्पन्न करना।	
CO5	विद्यार्थियों को विविध भाषायी कौशलों से परिचित कराना।	
BLF 1.3 Core Natural Science		
CO1	appreciate that science is a dynamic and expanding body of knowledge;	**Level of attainment**
CO2	identify and relate everyday experiences with learning Natural science;	
CO3	understand the process of science and role of laboratory in teaching learning situations;	
CO4	use effectively different activities/demonstrations/laboratory experiences for teaching learning of Natural science;	
CO5	identify the concepts of Natural science that are alternatively conceptualised by teachers and students in general;	
BLF 1.4 Core Social Science		
CO1	develop an understanding of the nature of Social Sciences	**Level of attainment**
CO2	to acquire a conceptual understanding of the processes of teaching and learning Social Sciences;	
CO3	Understand the Study of the relationship and interaction of people in group	
CO4	to enable student teachers, examine the prevailing pedagogical practices in classrooms critically and to reflect on the desired changes;	
CO5	Understand the relationship between human experience and the growth of institution	
	BLPR 1.1 Performing and Fine Arts	**Level of**

		attainment
CO1	To initiate a process for independent, enjoyable and motivated learning by the learners themselves on the basis of their own experiences	
CO2	To help recognize the importance of group work and socialization	
CO3	To work on linkages between dramatics and school subjects	
CO4	To develop a repertoire of skills for use in teaching-learning situations	
CO5	To grow with an attitude and philosophy about life learning	
	BLPR 1.2 Craft and Participatory Work	
CO1	Recognize and actualize one's own potential for creativity	**Level of attainment**
CO2	Use craft skill in education in order to stimulate creative expression, imagination and generate confidence among children	
CO3	Enable children to express their emotions	
CO4	Enable children to plan, collect and perform activities on their own using various creative media	
CO5	Provide ways for promoting decision-making in children	
	Second Semester	
	BLF 2.1 Contemporary India	
CO1	gain a critical understanding of issues in historical Foundation of Indian Education	**Level of attainment**
CO2	understand the key concepts, such as Education Commissions and Committees, Policy on Education	
CO3	become the use of a Educational provision in Indian constitution	
CO4	engage with learners' minds in order to further dimensions of education	
CO5	promote development in cognitive, social and emotional aspects.	
	BLF 2.2 Core Mathematics	
CO1	develop insight into the meaning, nature, scope and objective of mathematics	**Level of attainment**
CO2	appreciate mathematics to strengthen the student's resource;	
CO3	appreciate the role of mathematics in day-to-day life;	
CO4	construct appropriate assessment tools for evaluating mathematics learning;	
CO5	develop competencies for teaching-learning mathematics through various	

	measures	
	BLPR 2.1 Colloquia, School contact programme & Enrichment	
CO1	relate and communicate with children	**Level of attainment**
CO2	conduct meaningful group and individual activities with children.	
CO3	engage all children in activities and to ensure active participation and free expression	
CO4	observe children and collate experiences of interacting with and relating to children	
CO5	place emphasis on craft, theatre, music for organizing creative activities and also to plan, design and organize creative activities with children using skills of craft, theatre, music and so on	
	Third Semester	
	BLF 3.1 Cognition and Learning	
CO1	To become aware of different contexts of learning and situate schools as a special environment for learning	
CO2	To reflect on their own implicit understanding of the nature and kinds of learning	
CO3	Gain an understanding of different theoretical perspectives on learning with a focus on cognitive views of learning as well as social–constructivist theories	
CO4	Develop the ability to use a problem solving	
CO5	Develop an understanding of the concept formation	
	BLF 3.2 LANGUAGE ACROSS THE CURRICULUM	
CO1	Develop the ability to use language in an explicit and differentiated manner	
CO2	Develop the ability to use language for academic communication	
CO3	Inculcate sensitivity and competency towards catering to a multilingual audience in schools	
CO4	Increase their precision in building and usage of vocabulary of their subject	
CO5	Enhance their cognitive precision	
	BLO 3.1 ENGLISH -1	
CO1	Understand the nature of English as a Second Language	
CO2	develop creativity among learners	

CO3	use multilingualism as a strategy in the classroom situation	
CO4	understand the basics of English Literature	
CO5	get acquaintance with different sounds in English and use correct pronunciation in the classroom teaching	
	assess and evaluate the student skills of language learning	
BLO 3.2 Hindi-I		
CO1	भाषा के अलग–अलग भूमिकाओं को जानना	
CO2	भाषा सीखने की सृजनात्मक प्रक्रिया को जानना	
CO3	स्कूल की भाषा, बच्चों की भाषा और समझ के बीच के संबंध को जानना	
CO4	साहित्यिक और गैर साहित्यिक मौलिक रचनाओं की समझ और सराहना	
CO5	व्याकरण के प्रक्रिया एवं दृष्टिकोण को समझना	
BLO 3.3 Sanskrit -I		
CO1	To understand the different roles of language	
CO2	To understand the role and importance of Sanskrit and its cultural background	
CO3	To be able to know the place of Sanskrit in curriculum	
CO4	To understand about the methods of teaching Sanskrit	
CO5	To understand the use of language in context, such as grammar and vocabulary in context.	
BLO 3.4 Mathematics-I		
CO1	appreciate the abstract nature of mathematics distinguish between science and mathematics	
CO2	develop the skill of solving problems like symbolic logic and set theory	
CO3	develop the skill of solving real-life problems through mathematical modeling as an art	
CO4	develop the skill of using various methods of teaching mathematics	
BLO 3.5 Physics I		
CO1	Understand and uses different learner centered and teacher centered approaches	
CO2	Understand the planning for Teaching physics	

CO3	Understand the selection of various methods and models of teaching to teach different topics of physics	
CO4	Understand different curricula in Physics	
CO5	Understand the nature of Thermodynamics and statistics mechanics	
BLO 3.6 Chemistry I		
CO1	Understand the planning for Teaching chemistry	
CO2	Understand the planning for physical chemistry	
CO3	Understand the selection of various methods and models of teaching to teach different topics of chemistry	
CO4	Acquire the knowledge of modern trends in chemistry	
CO5	Acquire the knowledge of Inorganic and Organic chemistry	
BLO 3.7 Biology I		
CO1	Understand the planning for Teaching Biology	
CO2	Use advanced and creative techniques, learning aids and improvised apparatus in Biology lessons	
CO3	Appreciate and inculcate the competencies and commitments needed for a biological science teacher	
CO4	Plan and execute various curricular and co – curricular activities related to teaching of biological science.	
CO5	Gain an insight in to the skills of evaluating the outcomes of teaching biological science and prepare items and tests for secondary school students	
BLO 3.8 History -I		
CO1	Understand the nature of History as a school subject	
CO2	Articulate a conception of History	
CO3	Correlate History with other subjects	
CO4	Apply their knowledge of techniques to reconstruct the past	
CO5	Understand the concept of differentiated teaching for History	
	BLO 3.9 Political Science I	
CO1	Understand the nature of Political Science as a school	

	subject	
CO2	Articulate a conception of Political Science	
CO3	Correlate Political Science with other subjects	
CO4	Understand the language of Political Science	
CO5	Understand the concept of important theoretical concepts and human rights	
CO6	Understand the concept of society, community, nationalism, imperialism and politics	
	BLO 3.10 Geography -I	
CO1	To develop an understanding of Geography as a subject	
CO2	To acquire knowledge of approaches of arranging the subject content.	
CO3	To develop an understanding of different types of learning resources.	
CO4	To develop an understanding of the importance of organization of cocurricular activities	
CO5	To develop an understanding of lithosphere, atmosphere hydrosphere	
	BLO 3.11 Economics-I	
CO1	Refresh the knowledge about the meaning, Importance, nature, scope and aims of Economics	
CO2	Acquaint with the aims, objectives and value-outcomes through teaching of Micro Economics	
CO3	Develop ability to plan for suitable instruction in Economics	
CO4	Establish correlation of Economics with other school-subjects	
CO5	Refresh the knowledge about the meaning, Importance, nature, scope and aims of market	
	Fourth Semester	
	BLF 4.1 Language Acquisition	
CO1	acquaint to Indian & Western tradition in language	
CO2	know the psychology of teaching of language learning ϖ	
CO3	acquaint the students with pedagogy of language learning & language teaching	
CO4	acquaint the students with evaluation of language learning of different language	
CO5	evaluate various areas of research in language education	
	BLF 4.2 HUMAN RELATION AND COMMUNICATION	

CO1	To develop an understanding of communication	
CO2	get acquaintance with skills of communication	
CO3	understand the basics of communication channels	
CO4	understand the basics of self-identity and human relation	
CO5	understand humanist approach, behaviorism and community involvement	
	BLPR 4.1 Physical Education	
CO1	develop positive attitude towards health as individual and be collectively responsible to achieve it;	
CO2	make them aware about rules of safety in hazardous situation (illness, accident and injury) and equip them with first aid measures about common sickness and injuries;	
CO3	encourage them to learn and to form right habits about exercise, games and sports, sleep, rest and relaxation;	
CO4	develop a holistic and integrated understanding of the human self and personality	
CO4	develop positive attitude towards health as individual and be collectively responsible to achieve it	
CO5	develop the capacity to facilitate personal growth and social skills intheir own students	
	BLPR 4.2 Colloquia & Enrichment	
CO1	To develop skills of story-telling and the creative use of children's literature	
CO2	To develop skills of building up a resource of stories and children's literature for use in classrooms.	
CO3	To learn to use stories as a medium to facilitate expression,imagination and creative use of language in children	
CO4	To examine and develop a criteria of evaluating a variety of children's literature including picture books, folk tales, activity books, fiction and non-fiction	
	Fifth Semester	
	BLF 5.1 Basic Concepts in Education	
CO1	Gain a critical understanding of issues in Foundation of' Indian	

	Education	
CO2	Be exposed to different Problems in primary education	
CO3	Become the use of a educational provision in Indian constitution	
CO4	Engage with learners in minds n order to further dimensions of education a	
CO5	Promote development in cognitive, social and emotional aspects	
	BLF 5.2 School Planning & Management	
CO1	To help the teacher to obtain a total gender of his role of scientific management in education.	
CO2	Understand the key concepts. such as Education Commissions and Committees, Policy on Education.	
CO3	Be exposed to different Problems in primary education	
CO4	Become the use of an educational provision in Indian constitution	
CO5	Engage with learners in minds n order to further dimensions of education a	
	BLO 5.1 English- II	**Level of attainment**
CO1	get acquaintance with skills of communication for classroom teaching	
CO2	develop creativity among learners	
CO3	use multilingualism as a strategy in the classroom situation	
CO4	understand the basics of English grammar	
CO5	develop the skills of presentation of vocabulary	
	BLO 5.2 Liberal Course Hindi- II	
CO1	हिन्दी साहित्य के इतिहास की जानकारी।	
CO2	हिन्दी के आधुनिक कविताओं का ज्ञान।	
CO3	भारतीय काव्यशास्त्र एवं उसकी परम्पराओं का ज्ञान	
CO4	प्रयोजन मूलक हिन्दी का ज्ञान।	
CO5	हिन्दी व्याकरण का ज्ञान।	
	BLO 5.3 Liberal Course Mathematics- II	
CO1	Gain a critical understanding about mathematics Education.	
CO2	Enjoy mathematics and develop patience and persistence when solving problems.	

CO3	Become confident in using mathematics to analyse and solve problems both in school and in real-life situations.	
CO4	Develop the knowledge, skills and attitudes necessary to pursue further studies in mathematics.	
CO5	Develop a critical appreciation of the use of information and communication technology in mathematics.	
	BLO 5.4 Physics – II	
CO1	Understand and uses different learner centered and teacher centered approaches	
CO2	Understand the concept of quantum physics	
CO3	Understand the concept of quantum mechanics	
CO4	Understand the concept of solid state physics	
CO5	Understand the concept of nuclear physics and special theory of relativity	
BLO 5.5 Liberal Course: Chemistry – II		
CO1	Understand the planning for Teaching chemistry	
CO2	Understand the planning for physical chemistry	
CO3	Understand the selection of various methods and models of teaching to teach different topics of chemistry	
CO4	Acquire the knowledge of synthetic and natural polymers	
CO5	Acquire the knowledge of Inorganic and Organic chemistry	
BLO 5.6 Liberal Course Biology- II		
CO1	Understand the concept of Cell Biology and Genetics	
CO2	Understand the concept of Ecology Anti Ecosystem	
CO3	Understand the concept of Economic Zoology	
CO4	Understand the concept of Plant Meaphology	
CO5	Understand the concept of Animal Kingdom	
	BLO 5.7 Liberal Course History-II	
CO1	Understand the nature of Political History of Ancient India	
CO2	Understand the nature of Art and Archaeology of Ancient	

	India	
CO3	Understand about the early medieval period of Chandel and Chalukya Dynesty	
CO4	Understand about the Delhi Sultanate and Mughals	
CO5	Understand about the Movement and Diverse Ideology	
	BLO 5.8 Liberal Course: Political Science - II	
CO1	Understand the nature of political thought	
CO2	Articulate a conception of Political Science	
CO3	Understand the concept of environment and development	
CO4	Understand the concept of capitalism and international relations	
CO5	Understanding the potential of Political Science for development of skills	
	BLO 5.9 Liberal Course: Geography – II	
CO1	To develop an understanding of Resource Geography	
CO2	To develop an understanding of Population Geography	
CO3	To develop an understanding of Transport Geography	
CO4	To develop an understanding of lithosphere, atmosphere hydrosphere	
CO5	To develop an understanding of soil	
	BLO 5.10 Liberal Course: Economics – II	
CO1	Organize group-activities and project and to use various instructional strategies and methods the effective teaching of the subject.	
CO2	Refresh the knowledge about the economic development.	
CO3	understand the basics of planning and assessment of performance under five-year plan.	
CO4	Understand the significance agriculture, industry, and services.	
CO5	to enable students to understand about the HDI, population, health and economic development.	
CO6	Understand the significance of correlation, dispersion, frequency distribution and statistical analysis.	
	BLPR 5.1 Classroom Teaching	
CO1	understand the importance of classroom teaching	
CO2	understand the importance of pre-planning for classroom teaching	

CO3	develop ability to face the problems in managing the classroom teaching.	
CO4	understand the role of leadership of a teacher	
CO5	understand the nature and characteristics of teaching as a profession	
	Sixth Semester	
	BLF 6.1 : Logico Mathematics Education	
CO1	Gain a critical understanding about logico mathematics Education.	
CO2	Enjoy mathematics and develop patience and persistence when solving problems.	
CO3	Become confident in using mathematics to analyse and solve problems both in school and in real-life situations.	
CO4	Develop the knowledge, skills and attitudes necessary to pursue further studies in mathematics	
CO5	Develop a critical appreciation of the use of information and communication technology in mathematics	
	BLF 6.2 : Pedagogy of Environment Studies	
CO1	To help pupil teachers acquire an awareness of and sensitivity to the total environment and its allied problem	
CO2	To help pupil teachers acquire a set of values and feelings of concern for the environment and the motivation for actively participating in environmental improvement and protection.	
CO3	To help pupil teachers acquire the skills for identifying and solving environmental problems	
CO4	To provide pupil teachers with an opportunity to the actively involved at all levels in working towards resolution of environmental problems	
	BLPR 6.1 Material Development and Evaluation	
CO1	Develop the knowledge of systematized observations and analysis of pedagogic practices in conventional and innovative settings.	
CO2	Develop the knowledge of materials evaluation	
CO3	Develop the skill of writing our own materials: material development.	
	BLPR 6.2 Colloquia ,Enrichment & Health Education	
CO1	to enable students to understand the power of self and to know the methods to develop it to the maximum.	
CO2	It will enable students to have a critical understanding of self, methods of self development,	
CO3	Students will be evaluated on the basis of their practice	

	and mastery of skills in yoga by the internal teachers.	
CO4	It is a meditative means of discovering dysfunctional perception and cognition as well as overcoming it for release from suffering, inner peace and salvation.	
CO5	Build capacities for self-criticism and facilitate growth	
	Seventh Semester	
	BLF 7.1 Gender and Schooling	
CO1	To examine critically gender inequalities in societies by using feminist theoretical frameworks.	
CO2	To learn to observe and analyze manifestations of gender inequities in the process of schooling and to develop strategies for intervention.	
CO3	To develop basic understanding and familiarity with key concepts- gender, gender bias, gender stereotype, empowerment, gender parity, equity and equality, patriarchy and feminism and transgender.	
CO4	Understand the social construction of gender with respect to identities and localities.	
CO5	Understand the place of gender with respect to modern society.	
	BLPR 7.1 Innovative Teaching Aids	
CO1	Student should be able to understand Teaching Materials & Teaching Aids.	
CO2	Development of understanding the proper use of teaching aids helps to retain more concept permanently.	
CO3	Student should be able to understand importance and types of teaching aids	
CO4	Understand the Visual Aids, Audio Aids and Audio-Visual Aids	
CO5	Development of different ideas, give the freedom to explore	
CO6	Student should be able to understand the effect of using teaching aids in language teaching.	
CO7	Student should be able to understand how to select effective teaching aids	
	BLPR 7.2 School Internship	
CO1	Prepare lesson plans in two school subjects and deliver lesson plans .	
CO2	Integral student assessment acclivities with teaching learning process.	
CO3	Conducting action research and case study.	
CO4	To enhance practical competence of B.El.Ed students regarding various function of teaching, management & organization of activities.	
CO5	To experience and understand the academic and social climate of school as social Institution.	

	Eighth Semester	
BLF 8.1 CURRICULUM STUDIES		
CO1	Understand the meaning and concept of curriculum	**Level of attainment**
CO2	Appreciate the role of the philosophical, sociological and psychological bases as the foundations of curriculum	
CO3	Understand various levels of planning.	
CO4	Interrelate the key elements in curriculum planning	
CO5	Know the steps involved in curriculum designin6. Be familiar with different models of curriculum evaluation	
BLOA 8.1 Language		
CO1	Understand the meaning of language and its components.	**Level of attainment**
CO2	Understand the language as a medium of instruction respective English.	
CO3	Understand the Language and Literacy in the Context of School and language acquisition.	
CO4	Understand the Language as a process with respect to classroom context.	
CO5	to enable students to understand the language learning methods.	
BLOA 8.2 Mathematics		
CO1	Understand the patterns, development and challenges of mathematics in day to day life	**Level of attainment**
CO2	Understand the concept and process of mathematics	
CO3	Understand the pedagogical practices in mathematics curriculum	
CO4	Differentiate the curriculum, syllabus and textbook of mathematics	
CO5	Comprehend critical review of mathematics curriculum at National level	
	BLOA 8.3 Natural Science	
CO1	Understand the principles, process relationships to design appropriate strategies for teaching of natural science.	
CO2	Identify and use various web- based resources for teaching and learning of natural sciences.	

CO3	Use various methods and approaches of teaching of natural science.	
	BLOA 8.4 Social Science	
CO1	Develop an understanding of the nature of social sciences, both of individual disciplines comprising Social Sciences, and also of social sciences as an integrated/interdisciplinary area of study.	
CO2	Acquire a conceptual understanding of the processes of teaching and learning social sciences.	
CO3	Enable student-teachers to examine the prevailing pedagogical practices in classrooms critically and to reflect on the desired changes;	
CO4	acquire basic knowledge and skills to analyze and transact the social sciences curriculum effectively following wide-ranging teaching learning strategies in order to make it enjoyable and relevant for life;	
	BLOB 8.1 Computer Education & understanding ICT	
CO1	Understand the scope of ICT and its pedagogic applications.	
CO2	Understand the meaning of ICT integration in teaching learning and other academic tasks.	
CO3	Develop competency among students to use Online and Offline electronic resources.	
CO4	Handle Word Processing, Spread sheet and Presentation applications.	
CO5	Develop various skills to use computer technology for sharing information and ideas through the E-mail, Blogs and Chatting groups.	
	BLOB 8.2 SPECIAL EDUCATION	
CO1	To know and understand the concept and principles of "special education" in India.	
CO2	To Aware with classification of special children.	
CO3	To Understand educational needs and problems of special education.	
CO4	Acquaint them with various methodologies of dealing with children with special needs.	
	BLPR 8.1 PROJECT WORK	
CO1	Every student is required to take up project work in specific areas of interest.	
CO2	Project work is designed to initiate students into a process of scientific enquiry, through classroom based research.	
CO3	Small projects on specific themes such as miscue analysis, gender stereotypes error analysis, children's understanding of specific concepts and so on can be taken up.	
	BLPR 8.2 PHYSICAL EDUCATION	
CO1	Acquire knowledge about physical and health education	
CO2	Develop the skills in organizing the physical education programmes in schools.	
CO3	Develop the activities required for organizing physical education	

	meets and events.	
CO4	Acquire knowledge about recreation, health and safety education	
CO5	Create awareness on different aspects of health and fitness.	

M.Ed.

Program Outcomes		
	Programme Outcome of M.Ed (Master of Education): On successful completion of the two year M.Ed programme, the prospective Teacher Educator will get the opportunity to excel in the field of education with multiple skills. It prepares the individual to introspect into the nature of educational problems and generate diversified knowledge with dynamic educational plans and policies. They shall be dedicated and motivated towards continuous learning with a clear vision and mission.	
Program Specific Outcomes		
PSO1	Understand the nature of education as discipline /area of study.	**Level of attainment**
PSO2	To encourage understanding of the basic concepts/ issues of education especially with reference to the kind of concerns that NCF 2005, NCFTE 2010 and NCTE regulation 2014 has raised in the context of understanding oriented teaching.	
PSO3	Understand how concepts theories/issues drawn from disciplines cognate to education i.e. Psychology, Sociology, Philosophy, Economics and Management etc. could be used/practiced suitably in the perspectives of teaching learning in school.	
PSO4	To prepare professional personnel who could be required to staff college of Education at Pre-Primary, Primary and Secondary levels.	
PSO5	To prepare students who would be administrators and supervisors for the educational institutions, Department of Education and in other fields.	
Program Course Outcomes		
M.Ed. First Semester		
Course one- TEM 101 (Nature of Knowledge and Education)		
CO1	To understand and appreciate the nature and the purpose of education, their practical ramifications in the school context.	**Level of attainment**

CO2	To understand types, bases and objectives of Education.	
CO3	To understand the interdisciplinary nature of education.	
CO4	To understand the Meaning, Concept, Nature and Types, Origin, Limitation and Facets of Knowledge.	
CO5	To understand the Concept of liberal studies, vocational and professional education.	
Course two- TEM 102 (Philosophical Foundations of Education)		
CO1	Understanding the nature and functions of philosophy of education.	**Level of attainment**
CO2	Logical analysis, interpretation and synthesis of various concepts, position and philosophical assumptions about educational phenomena.	
CO3	Understanding and use of philosophical method in studying educational data.	
Course three- TEM 103 (Research Method in Education and Statistics)		
CO1	Describe the nature, purpose, scope, areas, and types of research in education.	**Level of attainment**
CO2	Explain the characteristics of quantitative, qualitative and mixed research.	
CO3	Select and explain the method appropriate for a research study.	
CO4	Explain a sampling design appropriate for a research study.	
CO5	Explain tool, design and procedure for collection of data.	
Course four- TEM 104 (Pre-service and In-service Teacher Education)		
CO1	Concept, aims and scope of Pre- service teacher education in India and its Historical perspectives.	**Level of attainment**
CO2	Development of Pre- service teacher education curriculum in India.	
CO3	Pre- service teacher education Teaching models-concept & process.	
CO4	Pre- service teacher education Teaching skills.	
CO5	In - service teacher education Teaching skills.	
Course five- TEM 105 (Internship in Teacher Education institution)		
CO1	Understanding the Internship School and the community around.	**Level of attainment**
CO2	Observation of classroom teaching of peer student-teachers.	
CO3	Preparation of case study of the internship school and the innovative activities that the school undertakes.	
CO4	Mobilisation and development of teaching-learning resources.	
CO5	Undertake action research project on at least one problem area of	

	schooling.	

M.Ed. Second Semester

Course One- TEM 201 (Sociological Foundations of Education)		
CO1	Understanding the nature and functions of sociology of education.	**Level of attainment**
CO2	Understanding and use of sociological method in studying educational data.	
CO3	To enable the student to understand concept and process of social organization, social stratification and institution.	
CO4	To enable the student to understand relationship, between culture, society and education.	
CO5	To enable the student to know issues of equality, excellence and inequalities in education.	
Course two- TEM 202 (Development of Learner)		
CO1	To enable the students to understand concepts and principles of Educational Psychology as an applied science.	**Level of attainment**
CO2	To enable the learner to understand implications of Psychological theories for education.	
CO3	Critically analyse the process of learning from the point of view of cognitive psychological and the implications of other development.	
CO4	Visualize multiple dimensions and stages of Cognitive development and their implications .	
CO5	Understand the learner in terms of various characteristics.	
Course three- TEM 203 (Perspectives, Research and Issues in Teacher Education)		
CO1	To enable the students to understand concepts and principles of Teacher Education as Professional Education.	**Level of attainment**
CO2	To enable the learner to understand the role of Regulatory Bodies Institutes of Teacher Education.	
CO3	Critically analyse the Structure and Management of Teacher Education.	
CO4	Visualize the multiple Problems and Issues in Teacher education.	
CO5	Understand the different dimensions of Research and Development in Teacher Education.	
Course four- TEM 204 (Perspectives of Secondary Education System)		
CO1	To enable the students to understand concepts and principles of	**Level of**

	secondary Education.	**attainment**
CO2	To enable the learner to understand the role of different Commissions, Committees and Policies.	
CO3	Critically analyse the status of Rastriya Madhayamic Shiksha Abhiyan.	
CO4	Visualize the multiple Problems and Issues in Secondary Education.	
CO5	Understand the different dimensions of Vocationalisation of Secondary Education.	
Course five- TEM 205 (Personality Development and Yoga)		
CO1	develop a holistic and integrated understanding of the human self and personality.	**Level of attainment**
CO2	develop the skills of personal growth.	
CO3	develop social relational sensitivity and effective communication skills.	
CO4	develop positive attitude towards health as individual and be collectively responsible to achieve it;	
CO5	create interest for the practice of yogasanas and meditationsthrough which they learn the skills/art of self- control, concentration, peace and relaxation to avoid ill effects of stress, strain and fatigue of routine life;	
M.Ed. Third Semester		
Course One- TEM 301 (Psychology of Learning)		
CO1	To enable the students to understand concepts and principles of learning	**Level of attainment**
CO2	To enable the learner to understand implications of learning theories for education.	
CO3	Critically analyse the process of learning from the point of view of cognitive psychological and the implications of constructivist learning.	
CO4	Understand the learner in terms of various characteristics.	
CO5	Learn the factors affecting learner's environment and assessment.	
Course two- TEM 302 (Curriculum Studies and Assessment)		
CO1	To understand and appreciate the nature and the purpose of curriculum,	**Level of attainment**
CO2	To understand the Role of Regulatory Bodies in curriculum development	
CO3	To understand the Concept, need and importance of educational measurement and evaluation,	
CO4	To understand the nature of Taxonomies of Educational Objectives	

CO5	To understand the Trends in examination and evaluation	
Course three- TEM 303 (Advanced Research Methods and statistics in education)		
CO1	Describe the nature, purpose, scope, areas, and types of Qualitative Research in education.	**Level of attainment**
CO2	Explain the characteristics of quantitative, qualitative and mixed research.	
CO3	Select and explain the method appropriate for a research study.	
CO4	Explain a sampling design appropriate for a research study.	
CO5	Explain tool, design and procedure for collection of data.	
Course four- TEM 304 (Secondary Education internship)		
CO1	Student will able to study of secondary education institution on instructional and evaluation practices.	**Level of attainment**
CO2	Student will able to understanding the Internship School and the community around.	
CO3	Student will able to observe of classroom teaching of peer student-teachers.	
CO4	Student will able to prepare of case study of the internship school and the innovative activities that the school undertakes.	
CO5	Student will able to prepare of outcome of the activities.	
Course five- TEM 305 (Dissertation)		
CO1	Student will able to write the background of the study.	**Level of attainment**
CO2	Student will able to write the importance, objectives, hypothesis and delimitations of the study.	
CO3	Student will able to finalize the research designs of the study.	
CO4	Student will able to finalize the population, sample and tools and techniques for study Monthly Progress Report	
CO5	Student will able to write related reviews of the research.	
M.Ed. Fourth Semester		
Course First- (Historical, Economic and Political Perspectives in Education)		
CO1	Understanding the nature of developmental History of education.	**Level of attainment**
CO2	Understanding the status of education in the different Commissions and Committees	

CO3	To enable the student to understand the Educational provision in Indian constitution, human rights	
CO4	To enable the student to understand relationship, between Education and Human Development Index	
CO5	To enable the student to know the role of international bodies in educational development	
Course second- (Curriculum, Assessment and Evaluation in Secondary Education)		
CO1	To enable the students to understand concepts and principles of Curriculum	**Level of attainment**
CO2	To enable the learner to understand implications of Vocationalisation of school education.	
CO3	Visualize multiple dimensions and stages of learner's mental ability and their implications on learning.	
CO4	Understand the General methods and techniques of teaching at secondary stage	
CO5	Learn the factors affecting learner's environment and assessment.	
Course - TEM 403/4 A (Educational Administration & Management)		
CO1	To enable the student teachers to understand meaning, nature, scope, function, principle and approaches of educational management.	**Level of attainment**
CO2	To develop an understanding in the students about various approaches to educational planning.	
CO3	To develop an understanding of required educational leadership and accountability to be maintained by the teacher and administrator.	
CO4	To orient students with the concept of educational supervision, inspection and improvement in the field of education.	
CO5	To acquaint the students with specific trends in educational management.	
Course - TEM 403/4 B (Educational Measurement & Evaluation)		
CO1	To acquaint the student with the basic concepts and practices adopted in educational measurement and educational evaluation.	**Level of attainment**
CO2	To help the students understand relationship between measurement and evaluation in education and the existing models of evaluation.	
CO3	To orient the student with tools and techniques of measurement and evaluation.	
CO4	To develop skills and competencies in constructing and standardizing a test.	
CO5	To make the students understand how various requirements of education are measured evaluated, interpreted and their results are	

	recorded to help learners.	
Course - TEM 403/4 C (Inclusive Education)		
CO1	To develop an understanding of the concept, principals and models of Inclusive Education in the context of education for all.	**Level of attainment**
CO2	To explore the needs for Special Educational Learners in Inclusive School	
CO3	To develop skills and competencies in constructing and standardizing a test.	
CO4	To make the students understand how various requirements of education are measured evaluated, interpreted and their results are recorded to help learners.	
CO5	To know about the status of Inclusive Education in different Policy and programmes	
Course - TEM 403/4 D (Educational Technology and ICT)		
CO1	To enable the student teachers to understand about the meaning, nature and scope and significance of E.T. and its important components in terms of Hardware and software.	**Level of attainment**
CO2	To help the students teachers to distinguish between communication and instruction so that can develop and design and sound instructional system.	
CO3	To acquaint students teachers with levels, strategies and models of teaching for future improvement.	
CO4	To enable the student teachers to understand about the importance of programmed instructions and researches in E.T.	
CO5	To acquaint the student with emerging trends in E.T. along with the resource centres of E.T.	
Course - TEM 403/4 E (Guidance and Counselling)		
CO1	Understand the meaning, nature and scope of guidance.	**Level of attainment**
CO2	Recognize the role of guidance in attaining the goals of education.	
CO3	Develop acquaintance with various techniques of group guidance.	
CO4	Analyse the relationship between guidance and counseling.	
CO5	Understand the various stages involved in the process of counseling.	
Course - TEM 403/4 F (Value Education and Human Rights)		
CO1	To enable the student to understand the need and importance of Value education and Education for Human Rights.	**Level of attainment**
CO2	To enable them to understand the nature of value, moral values, moral	

	education and to differentiate such values from religions education, moral training or moral indentation.	
CO3	To orient the students with the basis of morality and with the place of reason and motions in moral development of the child.	
CO4	To enable them to understand the process of moral development of the child and their cognitive and social development.	
CO5	To orient the students with various intervention strategies for moral education and conversion of moral learning into moral education.	
Course - TEM 405 (Dissertation)		
CO1	Write the importance, objectives, hypothesis and delimitations of the study	**Level of attainment**
CO2	Write related reviews of the research	
CO3	Finalize the research designs of the study.	
CO4	Finalize the population, sample and tools and techniques for study	
CO5	Presentation of Analysis, Interpretation of Data & Results of Research work.	

B.Ed.Spl.Ed.[HI]

B.Ed Special Education (Hearing Impairment)

B.Ed. Special Education (Hearing Impairment), graduated special educators will be able to ;

PROGRAMME OUTCOMES	
PO1:	Develop competencies and skills to impart education & training effectively to all children including children with disabilities in all educational settings (special schools, Inclusive schools and open /Home settings)
PO2:	Equip with competencies and knowledge related to curriculum planning and be aware of best practices in the field of pedagogical interventions and adaptations for children with disabilities in all educational settings.
PO3:	Impart with the core competencies and knowledge about change i the prevailing and emerging Indian society in view of recent trend in education and national development.
P04:	Build theoretical knowledge, competencies and skills to assess an identify the special needs of children in all educational settings ar develop confidence in them to realize their potentials and abilities
PO5:	Exert cross disability approach to meet the needs of children with disability other than hearing Impairment in Inclusive set up with enhancement of professional capacities in yoga, dance, drama an

	gender studies.

PROGRAMME SPECEFIC OUTCOMES	
PSO1:	Acquire knowledge & skills about the nature and educational needs of children with hearing Disability as well as other specific disabilities.
PSO2:	Develop lesson plans and teach children with hearing disability in special schools, children with other disability in special schools and promote technology enabled teaching learning process.
PSO3:	Analyze, interpret, understand and apply the complex interrelationships between theoretical knowledge and practical aspects through field placement and internship in Special School- Hearing disability and other disabilities inclusive schools and Home/Open schooling.
PSO4:	Develop the ability, as a member of the educational team to develop the Individualized Education Plan/Individualized Family Support Plan and to identify, design and promote individualized supports, strategies, accommodations and modifications that meet children's educational needs.
PSO5:	Develop the ability, in collaboration within a team, including parents to facilitate the development of social, behavioral and academic skills in students and work in partnerships with families to promote their full participation in the educational process.
PSO6:	Develop knowledge of differential characteristics of individuals with various types and natures of disabilities, as well as the implications for the development and implementation of programs and services.
PSO7:	Expand their knowledge and competency to clear competitive examinations like TET, CTET etc.
PSO8 :	Acquire knowledge & skills about human development, contemporary Indian education, and pedagogy of various school subjects and assessment for learning.
PSO9 :	Acquire knowledge & skills about nature and educational needs of children with disabilities as well as of few select specific disabilities.
PSO10 :	Develop conceptual understanding of education provisions and skills for working with children with various disabilities in Special and inclusive settings.
PSO 11 :	Enhance knowledge and skills for professional development.
COURSE OUTCOMES (of the Course - Human Growth & Development)	
CO1:	Explain the process of development with special focus on infancy, childhood and adolescence.
CO2:	Critically analyze developmental variations among children.
CO3:	Comprehend adolescence as a period of transition and threshold of adulthood.

CO4:	Analyze different factors influencing child development.
COURSE OUTCOMES (of the Course - Contemporary India & Education)	
CO1:	Explain the history, nature and process and Philosophy of education.
CO2:	Analyze the role of educational system in the context of Modern Ethos.
CO3:	Understand the concept of diversity.
CO4:	Develop an understanding of the trends, issues, and challenges faced by the contemporary Indian Education in global context.
COURSE OUTCOMES (of the Course - Learning, Teaching & Assessment)	
CO1:	Comprehend the theories of learning and intelligence and their applications for teaching children
CO2:	Analyze the learning process, nature and theory of motivation
CO3:	Describe the stages of teaching and learning and the role of teacher
CO4:	Situate self in the teaching learning process
CO5	Analyze the scope and role of assessment in teaching learning process in order to introduce dynamic assessment scheme for educational set up towards enhanced learning.
COURSE OUTCOMES (of the Course - Pedagogy of Teaching Science)	
CO1:	Explain the role of science in day to day life and its relevance to modern society.
CO2:	Describe the aims and objectives of teaching science at school level.
CO3:	Demonstrate and apply skills to select and use different methods of teaching the content of sciences.
CO4 :	Demonstrate competencies of planning for teaching sciences, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences.
CO5 :	Demonstrate skills to design and use various evaluation tools to measure learner achievement in sciences.
COURSE OUTCOMES (of the Course - Pedagogy of Teaching Mathematics)	
CO1:	Explain the nature of Mathematics and its historical development with contribution of Mathematicians.
CO2:	Describe the aims and objectives of teaching Mathematics at school level.
CO3:	Demonstrate and apply skills to select and use different methods of teaching Mathematics.
CO4:	Demonstrate competencies of planning for teaching Mathematics, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences.
CO5:	Demonstrate skills to design and use various evaluation tools to measure learner achievement in Mathematics.
COURSE OUTCOMES (of the Course - Pedagogy of Teaching Social Studies)	

CO1:	Explain the concept, nature and scope of social science.
CO2:	Develop competencies for designing unit and lesson plans, as well as tools of evaluation for social science teaching.
CO3:	Develop skills in preparation and use of support materials for effective social science teaching.
CO4	Develop the ability to organize co-curricular activities and community resources for promoting social science learning.
COURSE OUTCOMES (of the Course - Pedagogy of Teaching English)	
CO1:	Explain the principles of language teaching, and evolution and trends in English literature.
CO2:	Prepare an instructional plan in English.
CO3:	Adapt various approaches and methods to teach English language.
CO4	Use various techniques to evaluate the achievement of the learner in English.
COURSE OUTCOMES (of the Course - Inclusive Education)	
CO1:	Explain the construct of inclusive education & the progression from segregation towards valuing & appreciating diversity in inclusive education.
CO2:	Explicate the national & key international policies & frameworks facilitating inclusive education.
CO3:	Enumerate the skills in adapting instructional strategies for teaching in mainstream classrooms
CO4	Describe the inclusive pedagogical practices & its relation to good teaching.
CO5	Expound strategies for collaborative working and stakeholders support in implementing inclusive education.
COURSE OUTCOMES (of the Course - Introduction to Sensory Disabilities)	
CO1:	Name the different types of sensory impairments and its prevalence and describe the process of hearing & implications of various types of hearing loss.
CO2:	Explain the issues & ways to address challenges in educating students with hearing loss.
CO3:	Describe nature, characteristics & assessment of students with low vision & visual impairment.
CO4	Suggest educational placement and curricular strategies for students with low vision & visual impairment.
CO5	Explicate the impact of deaf-blindness & practices for functional development.
COURSE OUTCOMES (of the Course - Introduction to Neuro Developmental Disabilities)	
CO1:	Discuss the characteristics and types of learning disability.
CO2:	Describe the tools, areas of assessment and apply intervention strategies to enhance learning.
CO3:	Explain the characteristics and types of Intellectual disability.
CO4 :	Describe the tools, areas of assessment and prepare and apply intervention strategies for independent living.

CO5 :	Explain the characteristics and types of Autism Spectrum Disorder.
CO6 :	Describe the tools, areas of assessment and apply intervention strategies.
COURSE OUTCOMES (of the Course - Introduction to Locomotor & Multiple Disabilities)	
CO1:	Identify the persons with Locomotor disabilities such as Cerebral Palsy, Amputees, Polio, Leprosy cured, Muscular dystrophies, Neural and spinal defects and Multiple disabilities.
CO2:	Plan an effective programme for creating awareness about the persons with Locomotor disabilities and Multiple disabilities.
CO3:	Plan an effective therapeutic and programme for the persons with Locomotor disabilities and Multiple disabilities and to refer for medical intervention if necessary.
CO4	Plan an effective educational programme and functional activities for the persons with Locomotor disabilities and Multiple disabilities.
COURSE OUTCOMES (of the Course - Community Based Rehabilitation)	
CO1:	Explain the concept, principles and scope of community based rehabilitation
CO2:	Learn the strategies for promoting public participation in CBR
CO3:	Apply suitable methods for preparing persons with disability for rehabilitation within the community.
CO4	Provide need-based training to persons with disabilities.
CO5	Develop an understanding of the role of government and global agencies in CBR.
COURSE OUTCOMES (of the Course - Communication Options - Oralism)	
CO1:	Discuss the Aural Oral Options with reference to persons with hearing impairment in the context of India.
CO2:	Discuss the relevant issues like literacy, inclusion and training with reference to Oralism /Oral Rehabilitation.
CO3:	Exhibit beginner level hands on skills in using these options
CO4	Motivate self to learn and practice more skills leading to linguistic adequacy and fluency to be used while developing spoken language in children with hearing losses.
COURSE OUTCOMES (of the Course - Assessment & Identification of Needs)	
CO1:	Explain the need and techniques for early identification of hearing loss in children.
CO2:	Acquire knowledge in the area of Audiological assessment and its relevance in education.
CO3:	To discuss communicative and language related needs with the understanding of its development and assessment.
CO4	Understand the need for assessment of various processes involved in production of speech.
CO5	Describe and identify different components of educational assessment and analyze various educational needs of

	individuals with hearing impairment.
COURSE OUTCOMES (of the Course - Curriculum Designing, Adaptation & Evaluation)	
CO1:	Familiar with concept of curriculum and explain the importance of designing it for children with hearing impairment in the context of 21st Century learning skills.
CO2:	Develop capacity of developing literacy skills of reading and writing in children with hearing impairment.
CO3:	Describe the need for curricular adaptation and decide suitable adaptation and undertake it.
CO4	Appreciate the need for curricular evaluation and describe the tools and methods for evaluating it.
COURSE OUTCOMES (of the Course - Intervention & Teaching Strategies)	
CO1:	To understand about programmes for early intervention of infants and children with Hearing Impairment.
CO2:	Describe the need, stages and importance of auditory listening & Speech reading for facilitating development of spoken language of children with hearing impairment.
CO3:	Explain various approaches to teaching, strategies for speech intervention.
CO4	Describe methods, techniques and options to facilitate language and communication.
CO5	Explain the concept, principles and practices, linkages and outcomes of educational intervention.
COURSE OUTCOMES (of the Course - Technology & Disability)	
CO1:	Enumerate various listening devices and describe ways of effective usage and maintenance.
CO2:	Create awareness and basic exposure to state-of-the-art technology for management of various aspects of speech.
CO3:	Narrate the range of technological applications that can be used for facilitating communication and language.
CO4	Explain the present and future technologies facilitating the education of children with hearing impairment.
CO5	Identify different resources (financial & human) to obtain technology.
COURSE OUTCOMES (of the Course - Psycho Social & Family Issues)	
CO1:	Explain psycho social development of early childhood and role of family.
CO2:	To understand the family needs and find self-ready to support families for empowering the child with disability.
CO3:	Ensure family involvement in educational programs
COURSE OUTCOMES (of the Course - Reading & Reflecting on Texts)	
CO1:	Reflect upon current level of literacy skills of the self.
CO2:	Show interest and begin working upon basic skills required to be active readers in control of own comprehension.
CO3:	Show interest and begin working upon basic skills required to be independent writers understanding adequate intent, audience and organization of the content.

CO4	Prepare self to facilitate good reading writing in students across the ages.
CO5	Find reading writing as learning and recreational tools rather than a course task.
COURSE OUTCOMES (of the Course - Performing & Visual Arts)	
CO1:	Exhibit Basic understanding in art appreciation, art expression and art education.
CO2:	Plan and implement facilitating strategies for students with and without special needs.
CO3:	Discuss the adaptive strategies of artistic expression.
CO4	Discuss how art can enhance learning.
COURSE OUTCOMES (of the Course basic Research & Statistics)	
CO1:	Describe the concept and relevance of research in education and special education.
CO2:	Develop an understanding of the research process and acquire competencies for conducting a research.
CO3:	Apply suitable measures for data organization and analysis.

M.Ed.Spl.Ed.[HI]

M.Ed Special Education (Hearing Impairment)

M.Ed. Special Education (Hearing Impairment), graduated special educators will be able to ;

PROGRAMME OUTCOMES	
PO1:	Acquire advanced pedagogical skills, reflective practice and ability to adapt instruction to the needs of each individual as well as group as curriculum and Instructional designer.
PO2:	Acquire knowledge and skills in research methodologies to be reflective practitioners throughout their careers and to assess and improve their teaching and cooperate with research institutions or research projects as part of their Teaching career.
PO3:	Apply tools and techniques to assess and plan for education of Children with Hearing Disability in special, general and inclusive settings.
P04:	promote technology enabled teaching learning process with working knowledge of information and communication technology
PO5:	Work professionally as teacher educator in all educational setting with life long Learning adhering to ethical standards of teaching

PROGRAMME SPECEFIC OUTCOMES	
PSO1:	Develop professional competency as teacher educators equipped with the knowledge and skill to facilitate and conduct initial preparation and continuing Professional development of teachers in special education and inclusive education

PSO2:	Endow with the core competencies and knowledge related to teacher education and its philosophical underpinnings related to special education and inclusive education
PSO3:	build theoretical knowledge and skills in research methodologies and conduct research in order to enhance education of children with disabilities in all educational settings (Special Schools, Inclusive Schools and Open/Home settings)
PSO4:	Equip with competencies and knowledge related to curriculum planning and be aware of best practices in the field of pedagogical interventions and adaptations for Children with disabilities in all educational settings
PSO5:	exert leadership skills in advocating and meeting educational needs of children with disabilities including counseling in all educational settings (Special Schools, Inclusive Schools and Open/Home settings) including higher education
PSO6:	Widen their perspective to incorporate ICT skills as teacher educators in higher education settings and in teaching learning process of educating Children with Disabilities in all educational settings embedded with Universal Design for Learning.
PSO7:	Expand their knowledge and competency to clear competitive examinations like NET, SET, TRB, TET, CTET etc.
PSO8 :	Assist potential teacher educators to exert leadership in advocating and meeting educational needs of children with disabilities in various settings
PSO9 :	Offer special teacher educators the opportunity to develop specialized capacity for leadership in curriculum, pedagogy and universal design
PSO10 :	Build theoretical knowledge and skills in research methodologies and conducting research in order to enhance education of children with disabilities in all settings.
COURSE OUTCOMES (of the Course - Developments in Education & Special Education)	
CO1:	Trace development of general and special education system (PwDs) in India.
CO2:	Appreciate implications of recommendations made by the various Committees and Commissions for educational (General and Special) developments in India.
CO3:	Develop insight into the issues and challenges of present day education system.
CO4:	Understand important quality related issues which need to be taken into account for revision/ development of new education policy.
COURSE OUTCOMES (of the Course - Psychology of Development & learning)	
CO1:	Explain the psychological principles and their application in specific context of education and special education.
CO2:	Explain the principles and their implication for growth and development.

CO3:	Explain the implications of various disabilities on teaching of learning situations and personality development.
CO4:	Explain critically various teaching - learning processes.
CO5:	Apply the psychological aspects on teaching - learning situations.
COURSE OUTCOMES (of the Course - Research Methodology & Statistics)	
CO1:	Develop a conceptual understanding of research, its need and ethical research practices.
CO2:	Describe the types, methods and process of research.
CO3:	Apply statistical techniques for analysis of data.
CO4:	Explain the methods and techniques of qualitative research.
CO5	Prepare research proposal and report.
COURSE OUTCOMES (of the Course - Curriculum Design & Development)	
CO1:	Define and identify different components of curriculum.
CO2:	Understand and analyze various approaches to curriculum development.
CO3:	Explain and demonstrate curriculum differentiation.
COURSE OUTCOMES (of the Course - Inclusive Education)	
CO1:	Explain the philosophical, sociological and rights perspective of inclusive education.
CO2:	Develop skills in using a wide range of tools, instructional strategies, and social supports to assist students with disabilities learn effectively.
CO3:	Develop the skills associated with inter-personal relationships, managing relations in educational settings, problem-solving in educational settings, leadership and working in teams to promote inclusion.
COURSE OUTCOMES (of the Course - Perspectives in Teacher Education, In -Service & Pre- Service)	
CO1:	Gain insight and understand development of Teacher Education with reference to education of children with disabilities.
CO2:	Reflect on issues and problems related with teacher preparation for education of children with disabilities.
CO3:	Familiar with responsibilities of different organizations in preparation of competent teachers and critically examine it.
CO4	Appreciate importance of in-service programmes and develop capacity to plan and execute it as per specific need and purpose.
CO5	Appraise the existing teacher education curriculum and its relevance, issues and challenges.
COURSE OUTCOMES (of the Course - Educational Evaluation)	
CO1:	Explain the key concepts of evaluation and describe the developments in evaluation.
CO2:	Describe the scope of evaluation in education.
CO3:	Describe the use of evaluation as an effective tool in teaching-learning process.
CO4	Describe the ways & means of evaluation of programmes.

CO5	Explain the current trends in evaluation.
COURSE OUTCOMES (of the Course - Identification, Assessment & Needs of Individuals with Hearing Impairment)	
CO1:	Explain Audiological evaluation and reflect its application in education of CWHI.
CO2:	Describe speech of children and reflect its use in evaluation of CWHI.
CO3:	Explain various issues related to assessment of language and communication of CWHI.
CO4	Explain the practices in educational assessment including the setting up of an educational assessment centre.
CO5	Describe the importance of team approach and reflect on their role in assessment and identification of needs.
COURSE OUTCOMES (of the Course - Curriculum & Teaching strategies for children with Hearing Impairment)	
CO1:	Describe the curricular needs, framework and practices emerged out of the paradigm shift in education.
CO2:	Explain the bases, types and strategies of curricular adaptations
CO3:	Understand the concept and strategies in differentiated instructions
CO4	Explain the processes and theories of literacy development.
CO5	Explain the multiple literacy and their applications in curriculum.
COURSE OUTCOMES (of the Course - Adulthood & Family Issues)	
CO1:	Appreciate the importance of planning and implementing transition services for preparing adolescents towards adulthood.
CO2:	Explain strategies of developing independent living skills and preparing them for gainful employment.
CO3:	Describe communication, cultural and family issues to reflect in planning of services.
COURSE OUTCOMES (of the Course - Assistive Devices & Services for Individuals with Hearing Impairment)	
CO1:	Describe the available schemes and reflect on status of services for individuals with hearing impairment and suggest ways to improve.
CO2:	Understanding about individual and group listening devices used by CWHI in schools.
CO3:	Discuss role of technology in facilitating communicative educational and social functioning of language.
CO4	Understanding about use of assistive devices & methods in the management of CWHI in schools/ clinics.
CO5	Explain the present and future technologies, research developments and evidence based practices facilitating the education of CWHI.
COURSE OUTCOMES (of the Course - Educational Technology)	
CO1:	Discuss roles of Educational Technologists in various contexts.
CO2:	Apply appropriate instructional strategies
CO3:	Develop appropriate instructional media.

CO4	Integrate suitable ICT effectively in teaching-learning-evaluation.	
CO5	Suggest suitable modality of instruction (Online, Blended, etc.).	
COURSE OUTCOMES (of the Course - Guidance & Counselling)		
CO1:	State the basic concepts in Guidance & Counselling.	
CO2:	Discuss Educational, Vocational and Personal Guidance.	
CO3:	Describe testing devices and non-testing techniques of guidance.	
CO4	Analyze the problems faced by students in the contemporary world.	
CO5	Discuss the problems faced by children with disabilities.	