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1.1.1: Learning Outcomes Curriculum Framework (LOCF) Document.

Sr. No	Name of Program	Program Learning Outcomes	Program Specific Learning Outcomes	Name of Course with code	Course Learning Outcomes
1	B.A	BA(Economics) Acquire information and knowledge in Economics.	Economics as one of the optional 1. The study of economics involves an analytical look at how scarce resources are allocated to various areas of production. It emphasizes the importance of making choices between desirable alternatives. 2. The study of economics provides tools to make these choices in such areas as employment, economic growth, price stability, and trade. 3. This program provides students with a meaningful educational experience that is suitable for employment in a wide variety of occupations in business or government, and for continued study in graduate schools in economics, business, law, and other fields.	U.G-Semester-1 DSC-1 Micro Economics-1	1. Understand about Methodology in economics 2. perform supply and demand analysis to analyze the impact of economic events on Markets 3. Analyze the behavior of consumers in terms of the demand for products
				U.G-Semester-2 DSC-2 Micro Economics-2	1. Analyze the performance of firms under different market structures. 2. Recognize market failure and the role of government in dealing with those failures. 3. Explain how input markets work; use economic analysis to evaluate controversial issues, policies and evaluate the factors affecting firm behavior, such as production and costs
				U.G-Semester-3 DSC-3 Macro Economics	1. Provides students with an analytical framework to understand the basic functioning of the macro economy. It also allows them to critically examine and comment on effectiveness of various policies. 2. Understand why household, business, government and global behavior determine the aggregate demand for goods and services. 3. Understand why the behavior of businesses and the rest of the world determine the aggregate supply of goods and services.
				U.G-Semester-4 DSC-4 Public Finance and International Economics	1. Identify the sources of tax and non-tax revenue; evaluate the effects of taxation. 2. Explain the merits and demerits of direct and indirect taxes. 3. Explain the types of public debt. 4. Describe the various International trade theories; analyze the impact of International trade on the economy.

U.G-Semester-5 DSC-5 Indian Economy	<p>1. Differentiate between economic growth and economic development; classify the indices of economic development.</p> <p>2. Identify the demographic features of the Indian economy; assess the causes and measures of poverty inequalities and unemployment.</p> <p>3. Evaluate the policies and performance of different sectors in <u>Indian economy</u>.</p>
U.G-Semester-5 DSE-1: Quantitative Methods in Economic Analysis	<p>1. The students will understand various quantitative & statistical methods; understand data and draw inference from data; calculate and interpret statistical values by using statistical tool.</p>
U.G-Semester-5 DSE-2: Financial Institutions and Markets	<p>1. Students should be able to analyze various financial aspects of investments.</p> <p>2. Students should enable to devise financial management and its importance.</p> <p>3. Students should be discovering new facts and verify the impact of economic fluctuations in the economy.</p>
U.G-Semester-6 DSC-6: Telangana Economy	<p>1. Equips the students to analyse the basic features of Telangana economy and to have a clear understanding of the problems related to the Agriculture, Industry and other sectors of <u>Telangana Economy</u>.</p>
U.G-Semester-6 DSE-3 Economics of Development and Infrastructure	<p>1. Differentiate between economic growth and economic development.</p> <p>2. Examine the role of factors in development process.</p> <p>2. Analyze the impact of technological development on growth and <u>development of the economy</u>.</p>

				U.G-Semester-6 DSE-4 Economics of Environment	<ol style="list-style-type: none"> 1. Apply systems concepts and methodologies to analyse and understand interactions between environment and economic activities. 2. Appreciate concepts and methods from ecological sciences and their application in environmental problem solving. 3. Appreciate key concepts from environment as they pertain to the design and evaluation of environmental policies. 4. Make sustainable use of resources so that scarce resources will be available for future generations.
				Skill Course-1 Rural Economy	<ol style="list-style-type: none"> 1. After completing the course, a student will have the ability to acquire substantial knowledge of rural development experiments; enable students to gain knowledge on farm management, agricultural marketing, and agribusiness and their challenges and prospects for improving agricultural system; gathering knowledge about Rural Livelihood, Rural Non-farm sector and Entrepreneurship Development and Management; the ability to take decisions and plan, develop, execute and control marketing strategies; Attainment of organizational marketing goals.
				Skill Course-2 Budgeting	<ol style="list-style-type: none"> 1. Students will have acquired a range of skills to enable them to effectively contribute to the preparation of budgets within the business. They will understand where budgeting fits within a wider corporate planning cycle and will thereby be able to make a meaningful contribution to creating and implementing a <u>budgetary control system</u>.
2	BA	Psychology	Psychology: <ol style="list-style-type: none"> 1. Learners will get the ability to use knowledge and skills acquired in their daily life for their well-being 2. Students will get opportunities for higher learning- PG and PhD program. 	UG – Semester – I DSC – 1 – Foundations of Psychology	<ol style="list-style-type: none"> 1. The student will apply the knowledge in understanding human behavior 2. The students will be able to analyze different perspectives of psychologists about human behavior. 3. Students will analyze how the emotions are developed and expressed by individuals.

3. students will have better employment opportunities in various fields

<p>UG – Semester -2, DSC – 2 – Cognitive and Behavioral Processes</p>	<p>1. The Students will be able to apply principles of learning in their daily life and help others in using learning principles. 2. The students will be able to improve their memory and help others in enhancing their memory. 3. Learners will be able to understand the nature and various factors associated with thinking, problem solving and intelligence 5. The Students will be able to analyze determinants of personality and types of personalities</p>
<p>UG – Semester -3 DSC – 3 – Social Psychology</p>	<p>1. Students will be able to use principles and concepts of social psychology in understanding how the thought, feelings and behavior of individuals are influenced by other people/groups. 2. The course enables students to use principles involved in leadership and help them to adopt suitable leadership practices in real situations. 3. It helps students to have congenial social interactions at work places and social situations.</p>
<p>U.G-Semester-4 DSC-4- Abnormal Psychology</p>	<p>1. On completion of the course the students will have gained an understanding of the various psychological disorders and try to cope with the situation also guide to other individuals. 1. Students learn to identify, describe and categorize various maladaptive or abnormal behavioral symptoms and identifies various psychological disorders. 2. On completion of the course the students will have gained an understanding of the various psychological disorders and try to cope with the situation also guide to other individuals. 3. After completion of practicum learner applies in their life situations</p>
<p>U.G-Semester-5 DSC-5 – Life Span Development</p>	<p>1. After studying this course students evaluates the events of the entire life cycle 3. It is useful to the students to identify the life cycle i.e. infancy, childhood, adolescence, adulthood and late adulthood</p>

				U.G-Semester-5 DSE-A Educational Psychology	<p>1. Student learned various educational and psychological methods, theories principles and learning strategies and these can be applied in the field.</p> <p>2. The learning related theories and teaching learning process are useful in educational institutions.</p> <p>3. As a part of this course, topics like hidden curriculum, hidden discrimination., Learners diversity, consumerism, mental, health, stress, anxiety, counseling concepts are useful in schools and colleges</p>
				U.G-Semester-5 DSE-B – Organizational Psychology	<p>1. After completion of this course, the concepts, principles, methods learnt will be useful in for persons working in organizations as employees and managers.</p> <p>2. Practitioners can apply the knowledge from Organizational Psychology to improve employees’ behavior, motivation and attitude.</p>
				U.G-Semester-6 DSC-6- Psychological Assessment	<p>Learners will be able to apply the knowledge of Psychological assessment in different settings like educational institutions, organizations, hospitals, counselling centres etc.</p> <p>2. Skills acquired in this course will be useful when become professional counselors.</p>
				U.G-Semester-6 DSE-C- Health Psychology	<p>1. The students will be able to use the knowledge, principles of health psychology in their daily life.</p> <p>2. The course would be useful to students when they become professional counselors and for persons working in health care centres, hospitals etc.</p>
				U.G-Semester-6 DSE-D- Psychological Competencies	<p>1. On completion of the course, the student will gain psychological competencies which enable individuals to deal with personal and professional life challenges effectively.</p> <p>2. The skills like communication skills, empathy, interpersonal Relationships, self awareness etc would be useful in work situations, social situations.</p>
				Skill Course-3-in Psychology- Stress Management	<p>1. The knowledge and skills acquired would enable the readers to face the stressful events and modify them successfully.</p>
				Skill Course-4- Entrepreneurship Psychology	<p>1 The use of Psychology in entrepreneurship development ensures motivation of employees, selection of right persons, enhancement of staff performance, effective negotiation, better marketing, expansion of enterprise etc.</p>

3	U.G. Sociology	<p>To acquaint the students with the basic concepts and institutions in Sociology.</p> <p>To make the students understand the relationship between individual and society, culture and social change.</p>	<p>After completion of the course:</p> <p>The students will explain the sociological perspective, broadly defined the use of sociological theory to explain social problems and issues; make theoretically-informed recommendations, To address current social problems; and demonstrate the utility of the sociological perspective for their lives.</p>	U.G-Semester-1 DSC-1 Fundamentals of Sociology	Know how sociology differs from other Social Sciences and how sociology contributes to a social scientific understanding of social reality through its nature and scope; Interpret how the basic concepts of society, its relationship with man and the processes of socialization promotes the positive social interactions and the better social structure through its application in social settings.
				U.G-Semester-2 DSC-2 Indian Society : Structure and Change	Students are able to provide an Introduction of Social Structure & Social Change. Students are able to understand social issues and are empowered to face social problems. To elaborate on perspectives on Indian society; Understanding Historical Moorings of the Indian Society, Purusharthas, Ashrama Dharma and Four fold Varna System; Impact of Buddhism, Islam and West; Factors of continuity and change; Describing Stratification System in India including Caste and Class (Agrarian and Industrial class structure)
				U.G-Semester-3 DSC-3 Social Issues, Policies and Development	This course is expected to provide a wholesome idea to the students about the process of social issues. They can relate their experience with the theoretical explanations.
				U.G-Semester-4 DSC-4 Introduction to Research Methods	Students are introduced to the concept of conducting research, which is inclusive of formulating research designs, methods and analysis of data. Some knowledge of elementary statistics is also provided to the students to acquaint them with quantification of data. The thrust of the course is on empirical reasoning, understanding and analysis of social reality, which is integral to the concepts of quantitative research. Students learn to differentiate between qualitative and quantitative aspects of research in terms of collection and subsequent analysis of data.
				U.G-Semester-5 DSC-5 Rural and Urban Sociology	Knowledge about the theoretical perspectives on urban society; Knowledge about theoretical interpretation of urban issues; Application of urban theoretical perspectives to interpret urban history. Capacity to interpret urban issues; Capacity to work out urban planning and urban policies. Comprehensive understanding of Rural Society; Understanding the Agrarian Social Structure. Ability to participate in rural development programmes; Ability to understand policy formulation for rural India. Ability to understand the importance of Indian rural society and to get involved in any activity required to improve the lives of rural people.
				U.G-Semester-5 DSE-1 Social Anthropology	

				U.G-Semester-5 DSE-2 Criminology	Analyze and interpret the diversity of social experience associated with criminology and social justice issues, especially as they relate to race, class, gender, age sexual preference, religion and nationality; Assess competing theoretical approaches to criminology and social justice issues of publics with differing and multiple interests; specify structural or institutional sources of these criminology and social justice issues; and, propose and assess policies, interventions and/or modes of advocacy that will enact positive change.
				U.G-Semester-6 DSC-6 Social Demography	knowledge about theories on social Demography; knowledge about concepts in the study of social Demography; Ability to understand demography from the view point of social sciences; Ability to take up research on demographic variables; Ability to carry out research by coordinating research methods and demographic data on any topic of importance
				U.G-Semester-6 DSE-3 Political Sociology	An ability to comprehend the embeddedness of political and the social in each other; Familiarity with different theoretical and conceptual issues in political sociology and a capacity to use them to grasp political phenomena in a cross-cultural and comparative perspective.
				U.G-Semester-6 DSE-4 Industrial Sociology	Define industrial sociology and demonstrate the nature and scope of industrial sociology; Develop an understanding of the process and trends of industrialization in India and impact of industrialization on Indian society.
				Skill Course-3 Sociology of Healthcare	Demonstrate the skills to be able to review and assess a range of issues in the sociology of health and illness that are relevant to a self directed and defined problem; Show how an awareness of theoretical positions can enhance the exploration of a topic or problem in public health;
				SkillCourse-4Community Development: Theory and Practice	
4	UG-Public Administration	To make the learner to understand the nature and role of Public Administration in the changing socio-economic and political	Graduates will demonstrate basic understanding of theories, concepts and practices relevant to public administration and its sub-fields.	Course-1: Basics of Public Administration	Discern the importance of study of public administration; understand the different approaches to the study of public administration; Identify the trends in the development of public administration.

context and in the historical background

Course-II Dynamics of Public Administration	Acquaint with the concept, approaches and agencies of Development Administration discern the emerging trends in the Development Administration analyze the Development Dynamics of the state and understand the challenges and issues of Development Administration grasp the administrative theories, concepts and principles to make sense of administrative practices.
Course-III: Union Administration	Examine the historical evolution of India administration; understand the constitutional moorings of Indian administration; identify the administrative structure union level; explain the Constitutional bodies that contribute for running the administration; describe the role of public enterprises in Indian economy.
Course IV: State Administration	discern the connects and disconnects between structure, purpose, process and results in Indian Administration; understand the Indian Administration role as the main instrument of State to achieve its developmental goals; appreciate the varying historical, socio-economic, political and other conditioning factors that gave Indian Administration its distinct nature to the learner.
Course - V: Human Resources Management	estimate the need for planning human resources in personnel administration; sketch the measures for optimum utilization of human resources; identify the measures for redressal of employee grievances; unravel the varying methods of performance assessment of public institutions; and appreciate the changing paradigms of human resource management.
Course VI Rural Governance	Understanding of socio-economic structure of rural India knowledge on various policies and programmes of rural development

				Course VII Public Office Administration	understand the public office administration includes office procedures and automation Of offices for speedy services.
				Course-IX: Financial and Material Resources Management	understand the way how the financial and material resources are managed and controlled; identify the agencies involved in managing the financial resources; assess the material requirement and stages involved in procurement and distribution;
				Course-Xi: E- Governance	Understand the meaning and related concepts of e-governance; Explain the e-Governance processes vis-à-vis its application to different stakeholders; Identify the issues and challenges in e-Governance applications.
				Course-X: Urban Governance	
				Digital Governance	To analyze the use of ICTs and it's impact on citizens. To know several digital governance initiatives of Districts, States and Union Government. The course highlights the Urban-Rural digital divide in India with a special focus on developing countries.
				Rural Livelihood Management	Distinguish between the concepts of livelihood and income generation, articulate the characteristics, trends and principles involved in the practice of rural livelihoods. understanding of Livelihoods Assessment Tools that can be used to assess livelihoods at the community level and Livelihoods assessment process of a community/village.
5	UG- History	To ensure History as a subject of interest, curiosity and research To create realization	Develop understanding History as a subject of interest, curiosity and research Get awareness about the significance and relevance of History to understand our rich	Course-1: Indian History and Culture from the earliest times to 712 CE	Understand the facts related to Sources of History, Harappa and Vedic civilizations, Jainism, Buddhism, the rise and fall of different empires along with their political, social, economic, religious and cultural contributions.

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 To give a broad understanding on human progress in all fields
 To strengthen social, moral and spiritual values in the students to help them to grow as responsible citizens

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<p>Course-II Indian History and Culture from 712 to 1526 CE</p>	<p>Acquire the knowledge about the Indian History and Culture is its deep underlying unity in spite of its diversity. Analyze the conditions during this period India in spite of lack of political unity and invasions of Muslim rulers witnessed cultural assimilations and religious synthesis during medieval times.</p>
<p>Course-III: Indian History and Culture from 1526 CE to 1857CE</p>	<p>Examine the historical developments during 1526 CE to 1857CE understand the causes and results of Great Rebellion of 1857 identify the administrative structure of Mughals, other dynasties and Company Rule explain the late medieval period developments and to learn the subject better and enhance their understanding in a more comprehensive manner. describe the role of Governor Generals and Viceroys in consolidation of the British Rule in India</p>
<p>Course IV: Modern Indian History From 1858 to 1947 CE</p>	<p>Acquire the knowledge about the Indian National Movement and its Leaders Analyze the developments regarding social reforms movement, role of early political organizations, formation of Indian National Congress, Home rule, Non-Cooperation Movement, Civil Disobedience Movement and finally Quit India Movement.</p>
<p>Course - V: History of Modern World</p>	<p>Estimate the role of Renaissance, Reformation and counter Reformation in the modern age Europe. Sketch the currents of thought generated by the French Revolution influenced the entire mankind. Appreciate the concepts of Liberty, Equality, Fraternity and Nationalism.</p>

Course V Elective (A) History of People's Movements in Modern India	Understanding of socio-economic structure of rural India knowledge on various policies and programmes of British caused for the rural poverty in India Analyze the main causes for people's movements and effects of agitations.
Course V Elective (B) Cultural Heritage of India	The Learners will know about the richness of the Indian culture during the ancient period. They can understand the basic concepts associated with the different aspects of socio-cultural life of the above mentioned period and also know the Hindu religious movements, customs, traditions, languages, literature, art and architecture. They will be able to know how culture of Hindu society influenced that of the other contemporary civilizations. They will be able to analyze the emergence of the Mauryan and Gupta empires during the "classical age" in India Identify and analyze the Buddhist and Vedic (Hindu) faiths.
Course- VI History and Culture of Telangana from Earliest times to 1948	Understand the reconstruction of Telangana History using with archeological, numismatic, epigraphical history, foreign accounts, folk studies and interdisciplinary studies sources. Identify the different dynasties uniqueness and their specialties.
Course-VI Elective (A) History of Modern Telangana	Understand the fascinating history of modern Telangana during 1948 to 2014 Analyze the causes for separate state movement. Identify the issues and challenges faced by Telangana region after independence.
Course-VI (B) Contemporary History of India	Acquire the Knowledge on contemporary developments in all fields in independent India. * Analyze the developments in politics, science and technology, Economic growth. * Examine the factors related to reasons for Poverty, Foreign Policies, Land Reforms, Industrialization.

				<p>Archival Keeping and Museology</p> <p>To analyze the use of Archival Keeping and it's impact on Communities. To know several initiatives of Libraries and Museums to protect and preserve historical monuments. The course highlights the role of Cultural Heritage Institutions such as Archives and Museums.</p> <p>Students will have first-hand experience of conservation</p> <p>The course will give them an experience of research and writing reports while preparing the dissertation</p> <p>They will be able to choose a career in the field of Museology</p>
				<p>Tourist Guide and Hospitality Services</p> <p>Acquire the knowledge about the tourist guide services and hospitality services. Understand that tourist guide services is an essential request for understanding of the nature and emerging needs of Tourism Analyze the Challenges in Accommodation and Food serving Sectors. * Understand the concept of tourism, basic about tourism industry. * access and appropriately disseminate accurate and detailed product knowledge and destination information about different types of tourist.</p>
6	U.G - Geography	<p>1. To develop in them understanding of basic concepts, principles and theories relating to geographical phenomena. 2. To understand the difference between natural and man-made geography and how both</p>	<p>1. Demonstrate the ability to use skills in Geography and its related areas of technology for Formulating and tackling geospatial-related problems and identifying and applying appropriate geographical principles and methods to solve a wide range of problems associated with geospatial sciences. 2. To be able to explain territorial diversity and complexity, and the interrelations of natural environmental phenomena with economic, social</p>	<p>U.G-Semester-1 DSC-1-Geomorphology</p> <p>1. Describe what Geography, Physical Geography and Understand the principles of geomorphology 2. Understand the theories and concepts of Geomorphology, and the process that shape the landscape. 3. Gain knowledge on earth's interior. Develop an idea about concept of plate tectonics, and landforms. 4. Acquire knowledge about folds and faults and earthquakes, volcanoes and landforms.</p>

<p>shape how countries interact with one another.</p> <p>3. To understand to impact of global warming on the world and their role in combatting this</p> <p>4. To understand key human and physical geographical features of the world and describe how these have changed over time</p> <p>5. To make connections with history and understand how a country's natural resource often shapes their society, culture and relationship with the rest of the world</p> <p>6. To be able to interpret a range of geographical information such as maps and diagrams.</p>	<p>and cultural phenomena.</p> <p>3. To develop the specific skills related to work techniques, particularly those related to analysis, process and representation of geographical information and fieldwork.</p> <p>4. to impart basic knowledge on geography as a spatial science and train the undergraduates to secure employment in the sectors of geospatial analysis, development and planning, mapping and surveying State government Departments, GIS and remote Sensing, survey institutes, Tourism department, teaching and research organizations.</p>	<p>U.G-Semester-2 DSC-2- Climatology and Oceanography</p>	<ol style="list-style-type: none"> 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. 4. Prepare various climatic maps and charts and interpret them. 5. Learn to use of various meteorological instruments. 6. Learn the interaction between the atmosphere and the earth's surface. The Importance of the atmospheric pressure and winds. 7. To learn about marine resources characteristics of ocean waters. 8. Interpret hydrological and rainfall graphs and diagrams.
		<p>U.G-Semester-3 DSC-3- Human Geography</p>	<ol style="list-style-type: none"> 1. Gain knowledge about major themes of human Geography. 2. Acquire knowledge on the history and evolution of humans. 3. Understand the approaches of Human Geography, the diverse patterns of habitat and adaptations.
		<p>U.G-Semester-4 DSC-4- Economic Geography</p>	<ol style="list-style-type: none"> 1. Students learn the ways in which economic activities are organized over the earth's surface. 2. Students will be familiarized with economic processes such as globalization, trade and transportation and their impacts on economic, cultural and social activities 3. Students will learn about the variety of political systems and which administratively subdivide the regions of the world. 4. Students will be introduced to demographic, social and cultural attributes such as migration, social relations and cultural identity.

U.G-Semester-5 DSC-5 A–Geography of India	<p>1. After the completion of the course, the student will gain knowledge, able to Identify and explain the India Geographical Environment.</p> <p>2.The students Show the awareness and responsibility for the environment in India.</p> <p>3. He will Evaluate the impacts of human activities on natural environments special reference to India.</p> <p>4. Students will gain knowledge about the social, demographic, and cultural attributes such as migration, social relations and cultural identity.</p>
U.G-Semester-5 DSE- B Disaster Management	<p>1. Understanding foundations of hazards, disasters and associated natural/social phenomena. 2. Increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences. 3. Acquire Knowledge about Capacity to obtain, analyse, and communicate information on risks, relief needs and lessons learned from earlier disasters to formulate strategies for mitigation in future scenarios.. 4. Knows the Methods of community involvement as an essential part of successful DRR.</p>
U.G-Semester-6 DSC-6- Geography of Telangana	<p>1. After the completion of the course, the student will gain knowledge, able to Identify and explain about Telangana’s Geographical Environment.</p> <p>2.The students Show the awareness and responsibility for the environment consequences.</p> <p>3. He will Evaluate the impacts of human activities on natural environments. 4. Students will gain knowledge about the social, demographic, and cultural attributes such as migration, social relations and cultural identity.</p>

				U.G-Semester-6 DSE-B – Remote Sensing, GIS	1. The students who want to venture in the fields of RS and GIS, apprised themselves the basics in GIS and RS. 2. The students will expose to the fundamentals of Remote sensing and GIS its terminology, techniques of Image processing. 3. He will explain the vector, raster data, and the appropriate use of each of these data structures.
7	B.A in Political Science	Integrate theory with application of Political Science to make the study more meaningful Familiarize the learners with a broad array of concepts related to Indian political system, the institutions, their functions and political processes Situating contemporary events in broader institutional, political and social contexts	Prepares the Graduates to: - Understand fundamental concepts in the discipline of Political Science. -Gain exposure to politics in India	1. Semester-I: Discipline Specific Core – Political Theory and Concepts	The course will work towards achieving the following outcomes: – learners can differentiate amongst ideas, concepts of Political Science - they can identify political institutions and ideologies
				2. Semester-II: Discipline Specific Core – Political Ideas and Institutions	The course will work towards achieving the following outcomes: - and apply political ideas to contemporary politics
				3. Semester-III: Discipline Specific Core - Indian Government and Politics	The course will work towards achieving the following outcomes: learners can understand the functioning of Indian democracy get to know about the Indian Constitution, and its provisions
				4. Semester- IV: Discipline Specific Core – Indian Political Processes	The course will work towards achieving the following outcomes: -learners can analyse the influence of caste, religion and gender in Indian politics - they can apply theoretical knowledge
				5. Semester –V: Discipline Specific Core – Western Political Thought	The course will work towards achieving the following outcomes: learners can interrelate political thought and theory
				Discipline Specific Elective- A] Indian Political Thought	The course will work towards achieving the following outcomes: the learners can analyse the roots of ancient Indian political thought their relevance to contemporary Indian politics

				B] Government and Politics of Telangana	The course will work towards achieving the following outcomes: - the learners can narrate the political history of Telangana movement - and formation of Telangana State and its aftermath
				6. Semester –VI: Discipline Specific Core - International Relations	The course will work towards achieving the following outcomes: - the learners can explain concepts of international relations - analyse India’s role in International politics
				Discipline Specific Elective - C] Contemporary International Relations	The course will work towards achieving the following outcomes: the learners can acquire knowledge about emerging challenges to world politics can gain critical thinking about issues of global concerns
				D] Public Policy	The course will work towards achieving the following outcomes: the learners can know about the public policies in India
				Skill Enhancement Courses – 1. Political Reporting	The course will work towards achieving the following outcomes: the learners can make a career in political reporting in media
				2. Survey Research Methods	The course will work towards achieving the following outcomes: the learners can acquire skills of tools and techniques for online surveys
8	BLISc	Prepare and equip the students with necessary professional skills in the management of Library & Information Centres Make the students understand the role of LICs in the society Familiarize the students with various information sources available in both print and electronic	Manage a medium size library Provide LIS Services to the Society Describe various Reference and Information sources Classify and Catalogue different documents using various classification schemes and catalogue codes Provide documentation services to the users Acquire Information Technology skills and their application to library services Build good public relations with administration	BLS117LSC	Sharpen their reading, writing and speaking skills Prepare library policies, rules and regulations, annual reports etc.
				BLS117AECC	Discuss the importance of public relations in LICs Explain the different methods and tools of PR activities Understand role of digital media in the promotion of PR activities
				BLS117SEC	Conversant in the use of MS-Office suit of applications Acquire skills in the use of Internet

print and electronic
media

Build good public relations with administration,
faculty, researchers and user community

BLS117GE	Understand the process of scholarly communication and various channels through which scholarly writings are communicated Learn techniques of information consolidation and referencing styles Identify the emerging trends in scholarly communication
BLS117DSC1	Describe the role and functions of library towards the society Discuss the importance of library legislation and role of library associations
BLS117DSC2	Gain knowledge of computer software, hardware Digitize library collections and work effectively in the digital library environment
BLS117DSC3	Organize the library collection effectively using various classification schemes. Construct class numbers using DDC23rd edition
BLS217DSE1	1. Discuss the growth of Information in STEM 2. Know Important publishers in STEM 3. Get knowledge of acquisition and management of electronic resources in STEM 4. Understand the role of Big Data and the challenges posed by E-Resources to Librarians
BLS217DSE2	1. Discuss the growth of Information in Social Sciences and Humanities 2. Know Important publishers in Social Sciences and Humanities 3. Get knowledge of acquisition and management of electronic resources in Social Sciences and Humanities 4. Understand the role of Big Data and the challenges posed by E-Resources to Librarians
BLS217SEC2	Gain insight into the database applications in libraries Design and develop databases using MS-ACCESS and CDS-ISIS Search databases available on the Internet

				BLS217DSC4	1. Gain knowledge of Library management practices 2. Able to apply management principles to working of a library 3. Build and manage collection of print and non print resources in the library
				BLS217DSC5	1. Gain an understanding of different information sources such as Textbooks, Journals, Dictionaries, Encyclopedias, Biographical and Geographical Sources in both print and electronic media 2. Provide various information services such as – reference service, bibliographical services, Indexing and Abstracting services, document delivery services 3. Impart Information Literacy to the users of a library
				BLS217DSC6	1.Prepare Catalogue cards for Print and Non Print materials using AACR2R
				FIELD VISIT	1. Gain Practical Understanding about the working of a Library.
9	B.A Journalism and Mass Communication	To impart the basic knowledge in Mass communication & Journalism and related areas, to develop the student into a competent and efficient Media Industryready professionals, to empower learners in communication, professional and life skills, to impart Information Communication Technologies (ICTs) skills, to inculcate professional ethics, values, to prepare socially responsible media academicians,	After completion of the course: the students will know the basic concepts and theories of mass communication and journalism. They will be able to apply communication theories to media related fields. Students will understand news values and they will be able to write news and features, press releases following accepted journalistic standards. They will know the sources of news and ethical and legal aspects of source relations. They will understand the role of reporters, sub editors and editors. Also they will appreciate the role of media in society. They will understand the history of media and the social, economic, political technological forces that have shaped the media industry in India. Know the laws related to mass media, ethical aspects of media and they will be able to identify legal issues that may arise of news stories and make necessary changes to news stories.	Introduction to Mass Communication and Journalism U.G-Semester-2 DSC-2 Print Media Electronic Media Information Technology and New Media U.G-Semester-5 DSC-5 Public Relations	Students would be able to understand the basics of communication and journalism; Students will develop the <u>knowledge of nature, process and elements of journalism.</u> Students understand the working of various print media. They will understand basics of writing of print media. Will be able to write news stories by using appropriate leads. Defining News and understanding its elements, news sources and different types of news. Understand the role and functions of various editorial <u>functionaries in a newspaper.</u> Students will be able to understand the nature and working of electronic media platforms. They will know how to create content for electronic media and how to write script for electronic media. Will engage in their own TV production on hard and soft news. Gain practical knowledge Web Journalism and its different aspects. Practically distinguish Web Media from other mediums of Journalism. Demonstrate the analyses of web reporting of <u>different top websites</u> Understand about how to manage the dissemination of information about individual or organizations to public. Demonstrate the Planning, designing and use PR tools effectively.

	researchers, professionals.	They will be able to perform Public Relations duties under the guidance of seniors in the field.	U.G-Semester-5 DSE-1 Corporate Publications	Understand the meaning of corporate publications, communication and brand management. Develop the corporate communication strategies for public relations. Develop media relation methods to work with different stakeholders of corporate. Demonstrate the skills of for creating brand strategies	
			U.G-Semester-5 DSE-2 Telugu Journalism	-	
			U.G-Semester-6 DSC-6 Fundamentals of Advertising	Understand the concept and principles of advertising and Public relations. Gain familiarity with the concept of targeting, positioning and market segmenting. Develop an understanding <u>about the ethical issues related to advertising.</u>	
			U.G-Semester-6 DSE-3 Media Laws and Ethics	Understanding ethics of Journalism, freedom and responsibility of the press, Press Council of India. Demonstrate an understanding of key media laws that govern the flow of information in India. Show a solid grounding in media freedom, lobbying, pressure groups and responsibilities.	
			U.G-Semester-6 DSE-4 Specialized Journalism	Develop and enhance their news gathering & reporting skills on various beats. Understand the different forms of reporting and <u>their present importance.</u>	
			Skill Course-1 Photo Journalism	Students have an idea about photography and photojournalism which helps them to apply the knowledge when they search for <u>jobs in the field.</u>	
			SkillCourse-2 Media and Society	Become a socially responsible and ethically committed media professional and entrepreneur adhering to human values. Employ critical and reflective thinking along with the ability to create a <u>sense of awareness of oneself and society.</u>	
10	UG-B.Com	The students will be able to identify measure, classify, record and summarize business transactions. Understand the underlying principles of accounting and adopt it to different situations. Gain an understanding of the nuances of setting up of a business entity and the various forms in which it is organized. Appreciate the economic	Graduates will be able to appreciate the principle aspects in Advanced Accounts which make for its distinctiveness and significance. Will be in a position to use tools generally used to describe the degree to which one variable is related to another, Will be able to employ the techniques used to estimate the functional relationship between two sets of paired data and predict the future change in one variable as a result of change in other. Handle tools and employ techniques for characterizing a change in the statistical data over a period of time and to forecast/predict the future Deploy tools to measure the uncertainty of a particular event's	Business Organisation and Management	Acquire a very important domain of knowledge about how organizations are established which is quintessential for a student of commerce. Understand the process of industrialization. Appreciate the concepts of Industry, business and trade. Acquire the ability to give a comprehensive presentation on the sources of finance for raising necessary funds for smooth conduct of business firms. Gain an understanding relevance of the practices of traders, entrepreneurs and businessmen to the academic community.

Appreciate the economic aspects of a business and also be acquainted with the emerging trends in banking. Understand how a business makes use of statistics to make informed decisions.

measure the uncertainty of a particular event's occurrence and deducing the inference and making decisions under the conditions of uncertainty, risk and certainty. Acquire skills required in developing and maintaining the financial as well as accounting approaches for the global organizations.

Financial Accounting – I	<p>Appreciate Financial Accounting as the science of measurement of wealth and a specialized branch of accounting that keeps track of a company's financial transactions.</p> <p>Acquire the ability to identify, measure, classify, record and summarize business transactions.</p> <p>Acquire the ability of interpreting and reporting the results of business activity.</p> <p>Gain an exposure to the whole range of accounting practices therefore acquiring adequate familiarity in the matter of recording business transactions.</p> <p>Develop the capacity of performing routine functions of an Accountant</p>
Business Economics	<p>Comprehend that the knowledge of economics is essential to the students of commerce in view of the greater use of economic analysis in business situations.</p> <p>Students will be able to appreciate the essentiality of applied economics pertaining to business decision making.</p> <p>Understand the concepts of Demand analysis.</p> <p>Apply the demand forecasting techniques in estimation of demand.</p> <p>Comprehend the cost, revenue and profit analysis and market structures, pricing policies and methods.</p>

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Principles of Management	<p>Understand the role of management in the success of any business enterprise.</p> <p>Learn the importance of planning to an organization.</p> <p>Understand Organizing and how it plays a role in bringing semblance to organizational activities.</p> <p>Appreciate the importance of staffing, coordination and control.</p> <p>Appreciate the fact the understanding of the principles of management enables and facilitates better utilization and management of the scarce resources of the organization</p>
Financial Accounting – II	<p>Comprehend that Financial Accounting is the science of measurement of wealth and is a specialized branch of accounting that keeps track of a company’s financial transactions.</p> <p>Understand the basics of Bills of Exchange and its importance in the furtherance of business in nook and corners.</p> <p>Appreciate the importance of the concept of consignment in spreading business to areas where the organization does not have a presence.</p> <p>Comprehend joint venture transactions.</p> <p>Acquire the capability of dealing with Accounting aspects in organizations where single entry is followed and the accounting part of non-profit organizations</p>

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<p>Money & Banking</p>	<p>Understand how money evolved over a period of time.</p> <p>Comprehend the importance and role of money in the economy.</p> <p>Appreciate the role of money in facilitating economic activities like production, trade, public finance and other activities.</p> <p>Appreciate the role of banks in the development of a robust economy.</p> <p>Understand how and why banks have become an indispensable part of the modern business world.</p>
<p>Business Statistics – I</p>	<p>Comprehend the various Statistical Techniques of collection and analyze statistical data for decision making.</p> <p>Able to present the data collected both in a Tabular form and graphical form.</p> <p>Apply mathematical averages like Arithmetic Mean, Harmonic Mean and Geometric Mean and also positional Averages like Median, Quartiles and Mode in the analyzes of data.</p> <p>Comprehend the measures of dispersion and skewness and also Range and quartile deviation as measures of central tendency.</p> <p>Understand the relationship between various measure of dispersion including Lorenz Curves as a means of presenting the Statistical data collected in a appropriate manner.</p>

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Advanced Accounting	<p>Understand Hire Purchase and Installment purchase systems and the recording of transactions pertaining to these systems.</p> <p>Understand the Partnership Accounts and how they are operated.</p> <p>Know Departmental Accounts and the transactions therein.</p> <p>Understand how Branch Accounts are maintained.</p> <p>Comprehend the need for maintaining Branch Accounts meticulously.</p>
BusinessFinance	<p>Learn that the Behavior and performance of business enterprises are the key to understanding the modern economic society.</p> <p>Gain a professional viewpoint in the context of financial markets.</p> <p>Will be able to appreciate the various Financing Decisions and investment Decisions</p> <p>Appreciate the context in which Dividend Decisions are taken.</p> <p>Understand the determinants of Dividends and Retained Earning mix proportions in an enterprise.</p>

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<p>Business Statistics – II</p>	<p>Learn the importance of the study of Statistics as applicable to business in which decisions may have to taken with regard to complex transactions and strategies in the interest of the furtherance of Business and its development.</p> <p>Acquire the ability to use statistical tools and techniques to analyze the complex phenomena and present its conclusions in the form of graphs and numerals.</p> <p>Appreciate Correlation Analysis as a tool used to describe the degree to which one variable is related to another.</p> <p>Understand Regression Analysis as a technique used to estimate the functional relationship between two sets of paired data and predict the future change in one variable as a result of change in the other.</p> <p>Comprehend how Index Numbers, Probability and Theoretical</p>
<p>Corporate Accounting</p>	<p>Understand the importance of Corporate Accounting in the context of developing and maintaining the financial as well as accounting approaches for the global organizations.</p> <p>Comprehend Corporate Accounting as the science of measurement of wealth and as a specialized branch of accounting that keeps a track of a company’s financial transactions.</p> <p>Gain adequate familiarity in the matter of recording business transactions.</p> <p>Acquire the ability of performing routine functions of an accountant.</p> <p>Gain an understanding of the underlying principles of accounting and adopt them to different situations.</p>

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<p>Mercantile Law</p>	<p>Gain knowledge of the nature of Mercantile Contracts, when they are valid and when they become void.</p> <p>Learn the various remedies available when there is a breach in contract and differentiate between General Contracts and Special Contracts.</p> <p>Gain an understanding of the Sales of Goods Act and its provisions.</p> <p>Acquaint with the provisions of the Industrial Laws like the Factories Act and the Employees Compensation Act.</p> <p>Comprehend the rights of a consumer under the Consumer Protection Act and the protections given to inventions and innovations in the Intellectual Property Rights Act and also</p>
<p>Micro Finance</p>	<p>Gain an exposure to the concept of Micro Finance, its evolution in India and the Demand for Micro Finance in India, appreciate the contribution of self help groups in nation building and analyze the role of government and Apex Bodies in encouraging micro finance as an alternative source of fueling the economy.</p> <p>Study the efficacy of micro finance models and understand the products and services of micro finance and the role of micro finance in poverty alleviation and the operation of micro finance institutions in India</p>
<p>Rural Marketing</p>	<p>Understand the concept of Rural Marketing and rural consumers, the institutional support provided to rural markets and analyze the rural market strategies adopted by firms operating in the rural markets.</p> <p>Decipher the pricing strategies of rural markets from that of the urban markets and understand the pricing strategies adopted in rural markets and the study of rural marketing enables and facilitates better utilization of rural marketing efforts and management of organizational resources</p>

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Income Tax – I	<p>Understand the basic concepts in the study of income tax</p> <p>Apply the conceptual knowledge to the real world situation.</p> <p>Appreciate how residential status has a bearing on the tax liability of an individual.</p> <p>Understand the various exemptions provided by the income tax act.</p> <p>Gain knowledge on how to compute income under the various heads viz Salaries, House Property, Business and Profession, Capital Gains and Income from sources</p>
Cost Accounting	<p>Comprehend that Cost Accounting is formal mechanism by means of which costs of products and services are ascertained.</p> <p>Acquire a practical knowledge of costing techniques adopted in the ascertainment of costs.</p> <p>Understand the importance of installing a good cost accounting system in an organization.</p> <p>Ascertain to a reasonable extent the material, labour, overhead costs incurred in a manufacturing organization and the importance of material cost control, labour cost control and overhead cost control in bring down the price of a product being produced in the factory.</p> <p>Analyze the various methods of costing adopted in an organization and also their suitability</p>

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<p>Company Law</p>	<p>Understand the procedure of incorporation of a company.</p> <p>Comprehend the important documents required for incorporation and the documents required for effective and smooth functioning of a company.</p> <p>Comprehend the memorandum of Association and the various clauses it contains.</p> <p>Understand the powers and duties of directors of companies and comprehend the role of position of directors in companies.</p> <p>Learn how directors are appointed, their qualifications and disqualifications appreciate company secretaries' role in managing company and the procedure of winding up of a company</p>
<p>Principles of Marketing</p>	<p>Understand Marketing and the important role it plays in the growth of an organization.</p> <p>Learn Product management and its decisions.</p> <p>Comprehend Pricing Decisions, Promotion and Distribution.</p> <p>Appreciate the emerging trends in Marketing.</p> <p>Decipher the various marketing decisions taken and reflect the context in which they are taken</p>
<p>Indian Economy</p>	<p>Understand Indian Economy and its unique features.</p> <p>Appreciate the planning, investment and employment generation in an economy.</p> <p>Comprehend the issues relating to policy regime such as liberalization, privatization and globalization.</p> <p>Understand the composition of the Indian Economy in terms of Agricultural sector, Industry and Services sector.</p> <p>Comprehend foreign Trade and the balance of payments</p>

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Financial Markets	<p>Comprehend Financial Markets as the integral part of Financial System.</p> <p>Learn that Financial Markets facilitate the transfer of funds from ‘savers’ to ‘borrowers’ through various financial instruments.</p> <p>Understand that Financial intermediaries act as agents in the transfer and mobilization of funds both in domestic and international markets.</p> <p>Understand the nuances of Money Market and Capital Market.</p> <p>Learn about the Foreign exchange market and also the Derivatives Markets.</p>
Indirect Taxes – I	<p>Gain a complete understanding of the legislation on GST.</p> <p>Acquire knowledge of the other legislations that preceded the implementation of GST</p> <p>Gain an understanding of the literature pertaining to GST.</p> <p>Will comprehend the structure and preliminaries under GST.</p> <p>Understand the levy of GST, Time and Valuation of Supply under GST and Learn what and how is Input Tax Credit calculated and Tax invoices and records under GST</p>
Business Communication	<p>Comprehend the fact that communication is essential for effective functioning of individuals and organizations.</p> <p>Appreciate the concept that organizations whether small, medium or large, whether service or business, they use communication for existence and survival.</p> <p>Learn that it is difficult for people not to communicate and communication takes place even when a person is silent.</p> <p>Understand that communication is an essential condition of our existence.</p> <p>Comprehend communication as an important prerequisite for success in communication</p>

Banking Law and Practice	<p>Gain an understanding of the regulatory framework in the Banking sector</p> <p>Appreciate the role of the banks in the economic development.</p> <p>Comprehend the rights and obligations of the banker in relation to the customer</p> <p>Learn the procedure adopted by banks in dealing with special customers.</p> <p>Gain an understanding the Negotiable instruments Act.</p>
Income Tax- II	<p>Gain an understanding of the provisions of clubbing of income</p> <p>Learn how incomes are aggregated and appreciate the Deductions from Gross Total Income.</p> <p>Acquire an ability to compute to a reasonable extent the Income Tax Liability of Individuals.</p> <p>Gain a fair idea of the Authorities under the Income Tax Act. And the powers and duties of Income Tax Authorities.</p> <p>Understand the Appeals and Revision Rules, Procedure for Collection of Tax and consequences of Lapses.</p>
Management Accounting	<p>Comprehend that management accounting presents accounting information in such a way as to assist the management in policy making.</p> <p>Appreciate the role of Management Accounting in the day to day operations of an undertaking.</p> <p>Comprehend that Management Accounting helps the management to plan, evaluate and control business operations.</p> <p>Gain practical knowledge of the use of financial statements and marginal costing techniques.</p> <p>Use the techniques of budgetary control and variance analysis in the management of an enterprise.</p>

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E-Commerce	<p>Appreciate the fact that development of E-Commerce websites by the professional companies is the most popular method of promoting of businesses these days.</p> <p>Appreciate the immense scope of online transactions and the speed, security and accessibility they offer to business development.</p> <p>Understand the basics of Ecommerce, current and emerging business models.</p> <p>Expose the students to basic business operations such as sales, marketing, HR etc. on the web.</p> <p>Enhance the students' skills for designing and developing website. Identify the emerging modes of e-payment and the importance of security, privacy, ethical and legal issues of</p>
Sales and Distribution	<p>Appreciate the importance of sales and distribution as a very important aspect of marketing discipline including planning and sales force training.</p> <p>Learn recruitment and selection aspects of an organization.</p> <p>Acquire an understanding of physical distribution.</p> <p>Understand that sales and distribution is relevant for the manufacturers, sellers, managers and marketing professionals as well as other stakeholders.</p> <p>Develop confidence required to undertake a selling job in any marketing organization effectively.</p>

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Business Environment	<p>Student will familiarize himself with the environment in which the Businesses operate.</p> <p>Appreciate the nuances of the environment that suits the furtherance and development of business as also the industry.</p> <p>Understand the Industrial policy of the country.</p> <p>Appreciate the role played by the Industrial policy in giving a direction to balanced development.</p> <p>Appreciate the measures policy makers adopt to synchronize development with inclusive growth and socio-cultural background of the masses.</p>
Financial Services	<p>Appreciate Financial services as one of the constituents and components of financial system.</p> <p>Comprehend various types of fund based and fee based services.</p> <p>Learn the Financial services available to corporate clients as well as to retail investors in the financial markets through financial intermediaries.</p> <p>Understand leasing and hire purchase as business propositions and decipher leasing, hire purchase and venture capital as means of financing businesses.</p> <p>Analyze the role of merchant banking and credit rating services in vogue in the financial market.</p>
Indirect Taxes – II	<p>Prepare the students in the valuation of GST.</p> <p>Understand how GST is dealt with Accounting under GST and develop the ability to prepare GST Returns.</p> <p>Learn the procedure of claiming the Input Tax Credit and comprehend the GST administration officers.</p> <p>Learn the appeals and revisions provisions.</p> <p>Explain other indirect taxes not subsumed under GST like Customs Act and the valuation rules under the Customs Act.</p>

				Auditing	<p>Comprehend the importance of Auditing in an organization.</p> <p>Appreciate Auditing as a systematic examination of accounts and records to find out facts and to ensure that the accounts are properly drawn up to exhibit a true and fair view of the state of affairs of the business.</p> <p>Learn Internal Audit and its procedure.</p> <p>Comprehend internal control and apply in practice.</p> <p>Acquire an in-depth understanding of how an audit is conducted together with the procedure of vouching business transactions.</p>
				Principles and Practice of Insurance	<p>Understand the nuances of the Insurance Business.</p> <p>Comprehend the Indian Insurance Industry.</p> <p>Learn the difference between Life and General Insurance.</p> <p>Understand the Regulatory framework of Insurance Business.</p> <p>Appreciate the role played by Insurance in channelizing the savings into the economy.</p>
11	UG-Hindi	<p>1. To make the students able to recognise the differences and similarities between spoken and written languages.</p> <p>2. To make the student able to learn the principles while writing prose.</p> <p>3. To make the student able to recognise and learn the language using skills pertaining to different areas of language use.</p>	<p>1. The student recognizes the variations in style and learns appropriate usage of different styles in different contexts.</p> <p>2. The student understands the difference in language like standard language, and dialects</p> <p>3. The student can put into use the different forms of literature to write according to relevant requirements and personal taste.</p> <p>4. The student will put into use writing skills with all their dialectical variations.</p>	U.G-Semester-1 DSC-1 Hindi Sahitya ka Itihas	<p>1) Students will understand thoroughly the History of Hindi Literature.</p> <p>2) The course presents an understanding of the history of Hindi language and historians.</p>
				U.G-Semester-1 MIL-I Aadhar Pathyakram-I	<p>1) The course presents an understanding of Hindi language's grammatical structure.</p> <p>2) On completion of the course the students will gain ability to utilize nouns, pronouns, gender, words, and cases in a grammatical manner.</p>
				U.G-Semester-2 DSC-2 Hindi Gadya Sahitya	<p>1) The students will understand the structure of different forms of Hindi Literature.</p> <p>2) The course deals with the study of prose Literature and they will familiarize themselves with different forms of literature and importance of it in anyone's life.</p>

language use.

U.G-Semester-2 MIL-II Aadhar Pathyakram-II	1) The course presents an understanding of Hindi language's grammatical structure. 2) On completion of the course the students will gain ability to utilize verb, tenses, voice, Phrases, Clauses and Sentence formation and its applications in a grammatical manner.
U.G-Semester-3 DSC-3 Aadhunik Hindi Kavita	1) Students learn to identify, describe and classify the modern poetry. 2) On completion of the course the students will gain an understanding of the modern poetry in Hindi and how it has influenced the society in different situations like non cooperative movement, freedom fight and so on.
U.G-Semester-3 MIL-III Aadhar Pathyakram-III	1) The course teaches students about the grammatical structure of Hindi. 2) The students' ability to employ their listening, speaking, and reading abilities in grammatical situations will improve once they have finished the course.
U.G-Semester-4 DSC-4 Madhyakaleen Hindi Kavita	1) The students will understand the Bhakti movement in India and it's importance and relevance in its time frame. 2) On completion of the course the students will gain an understanding of the medieval poetry and how it has influenced the society in different situations especially in the situation of In the conditions of foreign invasion and religious decline. 3) Students will gain the knowledge of great saints and the relevance of their writings in this period.
U.G-Semester-4 MIL-IV Aadhar Pathyakram-IV	1) The course teaches students about the grammatical structure of Hindi. 2) After completing the course, the students will be better able to use their communication and writing skills in grammatical contexts.
U.G-Semester-5 DSC-5 Prayojanmoolak Hindi	1) On completion of the course the students will be able to acquire knowled/understanding of using Functional Hindi effectively when necessary. 2) The students will learn skills that will enable them to enter the workforce as professionals or to use in their chosen fields.
U.G-Semester-5 DSE-1 Premchand	1) On completion of the course the Students will be able to comprehend Premchand's philosophy, devotion to social justice, creative abilities, writings, and significance.

			U.G-Semester-5 DSE-2 Jayshankar Prasad	1) On completion of the course the students will be able to acquire knowledge of Jaishankar Prasad's literary introduction through his work, which will aid them in comprehending the tradition of Hindi poetry and studying poetry literature.
			U.G-Semester-6 DSC-6 Anuwad Siddhant aur Prayoug	1) On completion of the course the students will be able to acquire knowled/understanding of using theory of translation and apply their translating abilities as needed in a variety of areas of their lives. 2) The students will learn skills that will enable them to enter the workforce as professionals both government and non-government organisations.
			U.G-Semester-6 DSE-3 Hindi Computing	1) On completion of the course the students will be able to acquire knowled/understanding of the development of computer systems, electronic media, multimedia, and information technology, and also they will be able to successfully apply their abilities in a variety of disciplines in addition to learning new concepts. 2) Knowledge of the potentiality, effectiveness, and accomplishments of Hindi as a significant language of new communication will go hand in hand with an awareness of the nature of information technology.
			U.G-Semester-6 DSE-4 Srujanatmak Lekhan aur Sampadan Kala	1) On completion of the course the students will be able to acquire knowledge of Creative writing and Editing for both print and electronic media. 2) The students will acquire skills that will enable to recognize different format of writing in print and electronic media.
			Skill Course-3 Sambhashan Kala	1) Students will Enhance the skills on art of speech. 2) On completion of the course the students will hone their reading and communication abilities as well as those for the theatre, news organizations, or television channels. Consequently, possessing this knowledge will enable them to get better employment.
			Skill Course-4 Karyalayi Hindi	1) The ability to learn the official Hindi used in official correspondence can benefit job seekers. 2) On completion of the course the students will hone their skills of noting, drafting and official correspondence in Hindi.

12	U.G-Urdu	<p>As the U G student of modern times has to learn about different areas of language use and different kinds of variations language that are in practice. Now a days we feel the necessity of Making language teaching to reach the unreached. Hence the language which we have designed and planned to teach is modern language for Day-to day needs and requirements. In the light of these factors the Department of Urdu, Faculty of Arts, Dr. BRAOU has evolved a syllabus keeping in view of the following aims and objectives:</p> <p>To make the students able to recognize the differences and similarities between spoken and Written languages.</p> <p>To make the student able to learn the principles while writing prose.</p> <p>To make the student able to recognize and learn the language using skills pertaining to</p>	<p>To make the student to recognize the variations in style and also able to learn appropriate Usage of different styles in different contexts. To make the student able to recognize the different language like standard language, and Dialects and be able to learn the skills of using those variations in appropriate contexts. To make the student able to recognize the different forms of literature and be able to learn to Write according to his professional requirements and personal taste. To make the student able to understand about the structure, usage and writing skills with all Their dialectical variations. Hence, Faculty of Arts maintains parity with conventional system in terms of credit and courses to ensure same amount of esteem and easy transferability of credits</p>	U.G-Semester-1 MIL-1 Urdu Qawaed-I	<ol style="list-style-type: none"> 1. The students will understand the origin of Urdu language. 2. The students are exposed how to read & write Urdu Language. 3. The course presents an understanding of the processes of Urdu language. 4. Students are taught the rules of Urdu language and its basic principles.
U.G-Semester-2 MIL-2 Urdu Qawaed-II					<ol style="list-style-type: none"> 1. Studying the basics of Urdu Grammar and sentence structure it helps in understanding and building the overall knowledge of Urdu Language & Grammar. 2. The course deals with the study of reciting the words & the rules of forming plurals of a noun. 3. Further it also deals with the study of analogy & metaphor in Urdu poetry. 4. The student will be able to identify the metaphor and analogy to the Urdu poetry.
U.G-Semester-3 MIL-3 Urdu Nazm O Nasr -1					<ol style="list-style-type: none"> 1. Ancient Ghazal is the important part of the Urdu Literature. The course will help the student to exhibit an improved understanding of Ancient Ghazal & its importance. 2. On completion of this course the student will gain an understanding of the processes involved in the formation of different genres of the Urdu prose.
U.G-Semester-4 MIL-4 Urdu Nazm O Nasr - II					<ol style="list-style-type: none"> 1. Students learn to identify and describe the Modern Urdu Poets & his poetry. 2. The student will also acquire skills to determine & interpret different types of Urdu prose genres. 3. After completion of this course students will understand what the difference between prose is and poetry is.
U.G-Semester-1 DSC-1 Tareeq E Adab E Urdu-I					<ol style="list-style-type: none"> 1. The Students will learn the ideas of beginning of the Urdu Language. 2. Students will understand the Urdu school of thoughts (which is Dabistan E Delhi & Dabistan E Lucknow) and their literary works. 3. Students will elaborate and describe the starting history of Urdu Language and Literature.

Different areas of language use.

U.G-Semester-2 DSC-2 Tareeq E Adab E Urdu -II	<ol style="list-style-type: none">1. The student will understand the origin of Urdu Literature. The student are exposed the evolution of Urdu Prose and be able to describe the different types of Urdu fiction.2. The course presents an understanding of the processes in non-fiction genres and their impact of Urdu Literature.3. After completion of the syllabus students will understand different types of movements and associations who played a very important role in development of Urdu Literature.
U.G-Semester-3 DSC-3 Classici Adab	<ol style="list-style-type: none">1. Studying the Urdu Classical Literature and its importance it helps in understanding and building the overall knowledge in ancient poetry and prose.2. With this selection, students will be familiar with the appreciation of the ancient genres of Urdu poetry and prose, the technical essentials and the evolution of the genre.
U.G-Semester-4 DSC-4 Jadeed Adab	<ol style="list-style-type: none">1. Basically, this curriculum provides students with knowledge of the genres of modern Urdu literature2. On completion of the course the students will have gained the knowledge of Modern Urdu Literature and their new genres.3. By benefiting from this syllabus, the students will get complete information about the arts and evolution of these genres.
U.G-Semester-5 DSC-5 Urdu Afsana	<ol style="list-style-type: none">1. The course deal with Urdu short story structure which is a part of Urdu Fiction.2. The student will gain knowledge of the every trend and every movement related to Urdu Afsana.3. The student will acquire skills that will enable to recognize the knowledge about the modern genres of Urdu short story

<p>U.G-Semester-5 DSE-A Zaraye Ablagh O Tarjuma</p>	<p>1. Students learn various types of Communication and explain the principles & strategies applied in this field.</p> <p>2. After completion of this course students will be able to understand different types of Media and explain about it very well.</p> <p>3. The student has knowledge about Urdu Mass Communications and they will apply same in real life.</p> <p>4. Basically is a professional Course In modern Era this course having high demand and this course is very useful for students.</p>
<p>U.G-Semester-5 DSE-B Dr Syed Mohiuddin Qadri Zoor</p>	<p>1. Syed Mohiuddin Qadri Zor was writer, scholar, poet, literary critic, historian, and social reformer. He is best known for his pursuit of the rejuvenation of Urdu language and literature</p> <p>2. He has done a remarkable job by taking special interest in Deccani language and literature.</p> <p>3. After completing this course student will be able to understand Dr Syed mohiuddin Qadri zor's life, achievement and his literary work.</p>
<p>U.G-Semester-6 DSC-6 Adabi Tanqeed</p>	<p>1. The course deals with the study of Urdu Criticism.</p> <p>2. Students learn various types of Criticism along with the school of critics.</p> <p>3. Students will be able to learn and understand how to get knowledge about critics and their work.</p>
<p>U.G-Semester-6 DSE-C Fun E Khattati</p>	<p>1. Student will get knowledge of basic fundamentals of Linguistics and Calligraphy.</p> <p>2. Students will understand the principles of Urdu Calligraphy and the method of Calligraphy, the basics of Urdu letters etc.</p> <p>3. The student will gain knowledge of Urdu calligraphy.</p>

				U.G-Semester-6 DSE-D Telangana Mai Urdu Sher o Adab	<p>1. The tradition of Urdu literature in Telangana is ancient and wonderful.</p> <p>2. Through this book, students will get to know the rich heritage of Telangana language and literature And in them, the sense of poverty and the spirit of its protection and development will be born on this heritage</p> <p>3. After completion of this course student will be understand the history of Urdu literature in Telangana and express his thoughts & explain it very well</p>
				Skill Course-3 Information Technology & Urdu	<p>1. The students who want to venture in the fields of computer programmes like M S Office, MS Word, PowerPoint Excel & In page Urdu etc need to apprise themselves in Digital Computing Process.</p> <p>2. The course intends to expose the students to the fundamentals of computer, and the use of Urdu Language.</p> <p>3. After Completing the course students will be understand the Urdu software , In page Urdu ,Unicode & Urdu social websites, Urdu web portal etc</p>
				SkillCourse-4 Anchoring	<p>1. Understand the word of Anchoring in an Urdu Language context and relate this knowledge to how we start the procedure of Anchoring.</p> <p>2. After completing the course students gets the knowledge of basic principles and aesthetics of anchoring, as well as broadcast technology and the role of anchoring.</p>
13	PG Hindi	<p>. to teach the pupils how to distinguish between spoken and written languages' differences and similarities.</p> <p>2. to enable the pupil to comprehend the concepts while producing prose.</p> <p>3. to develop the student's ability to recognise and understand the language through skills related to various language use domains</p>	<p>1. The student recognizes distinct language varieties, such as everyday usage of Hindi language and its dialects will be able to use them appropriately in various contexts settings.</p> <p>2. The learner can put into practice various literary genres and write in accordance to professional needs and personal preferences.</p> <p>3. The student will gain knowledge by comprehending language skills and put them into day-to-day use.</p>	P.G-Course-1 Hindi Sahitya ka Itihas	<p>1) The History of Hindi Literature will be well understood by the students.</p> <p>2) In-depth knowledge of the history of the Hindi language and literature is presented in this course.</p>
				P.G-Course-2 Aadhunik Hindi Kavya	<p>1) Students learn to recognise, define, and categorise contemporary poetry.</p> <p>2) The comprehensive taxonomy of contemporary Hindi poetry as well as its representative poets will be made available to students</p> <p>3) After completing the course, students would have a better understanding of contemporary Hindi poetry and how it has impacted society in many contexts, such as the non-cooperative movement and the struggle for liberation</p>

domains.

4. to teach the student how to recognise the different styles and how to use them appropriately in various settings.

P.G-Course-3 Hindi Gadya Sahitya	1) The students will comprehend how various types of Hindi literature are structured. 2) The course focuses on the study of prose literature, and students will become familiar with the many genres and the value of literature in everyday life.
P.G-Course-4 Anuwad Siddhant aur Vyavahar	1) After completing the course, students will be able to learn how to use translation theory and apply their translation skills as necessary in a range of contexts. 2) The students will gain knowledge and abilities that will allow them to work for both government and non-government organisations as professionals.
P.G-Course-5 Upanyaskar Premchand	1) Students who take this course will be able to comprehend Premchand's philosophy, social commitment, creative abilities, and writing style. 2) Students will also be able to understand Premchand's significance and contribution to Hindi novel literature.
P.G-Course-6 Madhyayugeen Kavya	1) The students will comprehend the significance of the Indian Bhakti movement and how it relates to contemporary issues. 2) Students will also understand Reetikaal's literary works. 3) After completing the course, the students will have a better grasp of mediaeval poetry and how it affected society under various scenarios, particularly those including invasion by outsiders and a fall in religion. 4. Students will learn about literary figures and saints and how their works apply to the contemporary age.
P.G-Course-7 Bhasha Vigyan aur Hindi Bhasha ka Itihas	1) After completing the course, the students will have a better grasp of understanding of the right use of words and the accuracy of the language. 2) The pupils will gain knowledge of linguistic principles and appropriate language usage.
P.G-Course-8 Prayojanmoolak Hindi	1) After completing the course, students will have the knowledge and understanding to use Functional Hindi appropriately when called upon. 2) The students will acquire knowledge and abilities that will prepare them to work as professionals in their chosen fields.

				P.G-Course-9 Kavyashastra	1) From the study of poetry, the understanding of the form of literature, its composition system and method of communication and the ability to determine its value arises in the student. 2) Students will be able to acquire the concepts of both Western and Indian poetry.
				P.G-Course-10 Jayshankar Prasad	1) Students will be able to comprehend Prasad's personality and inventiveness as well as the aspects and significance of his <u>theatrical writing by studying this course.</u>
14	PG(Urdu)	As the P G student of modern times has to learn about different areas of language use and Different kinds of variations language that are in practice. Now a days we feel the necessity of Making language teaching to reach the unreached. Hence the language which we have designed and planned to teach is modern language for Day-to day needs and requirements. In the light of these factors the Department of Urdu, Faculty of Arts, Dr. BRAOU has evolved a syllabus keeping in view of the following aims and objectives: To make the students able to recognize the differences and similarities between spoken and Written languages.	To make the student to recognize the variations in style and also able to learn appropriate Usage of different styles in different contexts. To make the student able to recognize the different language like standard language, and Dialects and be able to learn the skills of using those variations in appropriate contexts. To make the student able to recognize the different forms of literature and be able to learn to Write according to his professional requirements and personal taste. To make the student able to understand about the structure, usage and writing skills with all Their dialectical variations. Hence, Faculty of Arts maintains parity with conventional mode of learning in terms of courses to ensure same amount of esteem	P.G-Course-1 Urdu Lisaniyat	1. Describe the fundamentals of Urdu Linguistics and Linguistics issues of Urdu Language 2. Student will be able to understand the definition of Urdu Linguistics and different types of Linguistics. 3. After completion the course student will know the origin and <u>evolution of Urdu Language .</u>
				P.G-Course-2 Deccaniyaat	1. In this Course Student will gain the knowledge about Deccani Urdu and its literature. 2. The course intends to expose the students to the fundamental of Deccani Language as well as the influence of other Languages. 3. Students will be able to acquire skills of different kind of Deccani poetry and explain is as well as.
				P.G-Course-3 Qadeem Sheri Asnaaf	1. On completion of the course the student will have gained an understanding of the ancient old genres of Urdu poetry. 2. To impart knowledge about genres development of Urdu has been explain very well. 3. Student will be able to acquire skills of understand the modern <u>Deccani Poetry as well as.</u>
				P.G-Course-4 Urdu Ki Adabi,Tehzeebi aur saqafati tareeq	1. Understand the principles of Urdu literature from the earliest period to the influential period 2. Understand the basic concept of institutions, colleges, and movements that play an important role in the development of Urdu literature 3. Apply Knowledge of this curriculum and able to work with <u>various kind of application fields</u>
				P.G-Course-5 Afsanvi Nasr	1. Student will characterize the elements of Urdu fictional prose. 2. Describe current information about drama, story, novel and fiction 3. Analyze various types of Urdu Fictional Genres in detail.

To make the student able to learn the principles while writing prose.
To make the student able to recognize and learn the language using skills pertaining to Different areas of language use.

P.G-Course-6 Urdu Shairy Ka Ahad E Jadeed	1. Student will be able to identify the Modern Urdu poetry. 2. Student will be easily tackled Ancient poetry and modern Urdu poetry very easily. 3. Evaluate process design criteria for modern Urdu poetry as well.
P.G-Course-7 Gair Afsanvi Nasr	1. Knowledge of the impacts of Non Fiction 2. Able to use main genres of non-fiction prose, essay, travelogue, schools, sketches, biographies, reportage are their respective areas. 3. Critically assess the development of these genres of Non Fictional Prose to promote Urdu literature.
P.G-Course-8 Adabi Tanqeed	1. Provide a detailed summary of Urdu Literary Criticism. 2. Critically analyze the school of criticism. 3. After Completion the course student will be understand the main theme of this curriculum and be able to analyze the different types of critics and their works.
P.G-Course-9 Ablagh Navesi	1. Show an understanding of the details of communication skills. 2. Student will be understand the different types of Mass communication and will be able to communicate their respective areas. 3. This is a professional course and very useful for students. 4. After completing this course student will use as their interest and get prepared for placement by developing personality and soft skills.
P.G-Course-10 Urdu Zaban o Adab Ki Tadrees	1. Student will understand the skills of teaching in Urdu language and literature. 2. Student will learn difference between Urdu prose and poetry teaching methods. 3. On completion of this course students will apply these teaching methods in their own life.
15 PG(English)	<p>to teach the pupils how to distinguish between spoken and written languages' differences and similarities. 2. to enable the pupil to comprehend the concepts while producing prose. 3. to develop the student's ability to recognise and</p> <p>1. The student recognizes distinct english language varieties, such as everyday usage of english language and its dialects will be able to use them appropriately in various contexts settings. 2. The learner can put into practice various literary genres and write in accordance to professional needs and personal preferences. 3. The student will gain knowledge by comprehending english language skills and put them into day-to-day use.</p>
Survey of British Literature	1) Students will understand thoroughly the History of Survey of British Literature.
American Literature	1) Students will understand thoroughly the History of Survey of British Literature.
English in India	1) Students will learn thoroughly the History of English in India.

		<p>recognise and understand the english language through skills related to various language use domains.</p> <p>4. to teach the student how to recognise the different styles and how to use them appropriately in various settings.</p>		<p>Growth and Structure of English</p> <p>Literary Criticism</p> <p>Indian Writing in English Translation</p> <p>Aspects of Language and their Relation to Literature</p> <p>English in use : The Abilities of Individuals</p> <p>Indian English Literature</p> <p>The Teaching of English</p>	<p>1) Students will understand thoroughly the Growth and Structure of English.</p> <p>1) Students will understand thoroughly the Literary Criticism.</p> <p>1) Students will understand thoroughly the Indian Writing in English Translation .</p> <p>1) Students will understand Aspects of Language and their Relation to Literature.</p> <p>1) Students learn English in use : The Abilities of Individuals</p> <p>1) Students will understand thoroughly the History of Indian English Literature</p> <p>1) Students will understand The Teaching of English</p>
16	UG(English)	<p>to enable the pupil to comprehend the concepts while communication,academic writing</p> <p>3. to develop the student's ability to recognise and understand the english language through skills related to various language use domains.</p> <p>4. to teach the student how to recognise the different styles and how</p>	<p>1. The student recognizes distinct english language varieties, such as everyday usage of english language and its dialects will be able to use them appropriately in various contexts settings.</p> <p>2. The learner can put into practice various academic writing styles, communication</p> <p>3. The student will gain knowledge by comprehending english language skills and put them into day-to-day use by using anchoring etc.</p>	<p>Introduction to the English Language-I</p> <p>Introduction to the English Literature-II</p> <p>Structure of Modern English-III</p> <p>English Poetry-IV</p> <p>English Drama</p> <p>Indian Literature</p> <p>Women writings in English</p> <p>English Fiction</p> <p>Academic Writing</p> <p>English in India</p>	<p>1) Students will know academic writing</p> <p>1) Students will understand thoroughly about English Literature-II</p> <p>1) Students will understand thoroughly the structure of modern english</p> <p>1) Students will understand English Poetry-IV</p> <p>1) Students will understand thoroughly the English Literature drama</p> <p>1) Students will understand thoroughly the History of Indian English Literature</p> <p>1) Students will find Women writings in English</p> <p>1) Students will understand thoroughly the English Fiction</p> <p>1) Students will know academic writing</p>

17	B.Sc	<p>U.G B.Sc., Zoology</p> <p>After learning this program, learner will be able to:</p> <ol style="list-style-type: none"> Understand the basic concepts of Science and their significance in day to day life. 	<p>U.G B.Sc., Zoology</p> <ol style="list-style-type: none"> Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms. Understand the nature and basic concepts of cell biology, genetics, molecular biology, taxonomy, physiology, ecology, diseases, disease spreading agents and applied Zoology. Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms. Analyze complex interactions among the various animals of different phyla, their distribution and their relationship with the environment. Understands the complex evolutionary processes and behaviour of animals. Understands the physiological processes of animals and relationship of organ systems. Gain knowledge of Agro based Small Scale industries like sericulture, fish farming, and vermicompost preparation. Understands about various concepts of genetics, molecular biology and its importance in human health. Understand the physiological aspects of human and other vertebrates. 	<p>B.Sc., Zoology Animal Diversity-Invertebrates</p> <p>B.Sc., Zoology Animal Diversity Vertebrates</p> <p>B.Sc., Zoology Ecology, Zoogeography and Developmental Biology</p> <p>B.Sc., Zoology Cell biology, Molecular Biology, Genetics and Evolution</p>	<ol style="list-style-type: none"> Understands general taxonomic rules on animal classification. Knows about the general characters of all phyla. Know about the diseases and adopt preventive measures. Adjudges the affinities of certain animals ie., Peripatus and Belanoglossus. <ol style="list-style-type: none"> Describes general taxonomic rules on animal classification with examples. Explains general characters and Classification of Vertebrates /chordates, fishes, amphibians, reptiles, aves and mammals with examples. Deliberates various systems in different animals, and identify difference and evolutionary sequence. Explains the importance of flight adaptations, parental care. Identifies poisonous and nonpoisonous snakes. Understands the similarities of various systems of rabbit with humans. <ol style="list-style-type: none"> Explains ecosystem structure and types of systems in nature. Understands biogeochemical cycles. Explains animal associations and community structure. Knows the importance of wildlife conservation. Visits national parks and sanctuaries of India, and visualizes endangered species. Visualizes different fauna in national parks. Visualizes developmental stages (in practicals) from zygote to miniature adult. Understands the importance of foetal membranes, placentation in mammals. <ol style="list-style-type: none"> Explains ultra structure of animal cell and its organs and realizes their functions based on structure. Understands the concept of protein synthesis based on genetic code. Explains Mendel laws of inheritance. Realizes genetic disorders, gene mutations and related inborn errors of metabolism. Elaborates theories of evolution and evidences
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B.Sc., Zoology – SEEC-1 Apiculture	<ol style="list-style-type: none"> 1. Identifies types of honey bees. 2. Identifies different casts of honey bees. 3. Handles equipment in extracting honey. 4. Understands the products of apiculture. 5. Utilizes the uses of honey. 6. Understands the pests and diseases and knows to control and prevent them.
B.Sc., Zoology – SEEC-2 Vermiculture	<ol style="list-style-type: none"> 1. Knows the importance of vermicompost and its used to enhance plant growth. 2. Prepares vermi beds and follows all the sequences for better composing. 3. Grows earthworms by providing good environmental conditions. 4. Understands the composition of vermi compost and utilizes in field to get good crop results. 5. Follows all the methods to get good amount of compost and sell worms and compost with better packing.
B.Sc., Zoology Physiology and Biochemistry	<ol style="list-style-type: none"> 1. Understands the function of various physiological process and applies the knowledge in day to day life. 2. Knows about the function of hormones and their effects on various organs. 3. Understands the process of osmoregulation in animals. 4. Applies knowledge of biomolecules and follows to build body status.
B.Sc., Zoology – DSC-A Principles of Aquaculture	<ol style="list-style-type: none"> 1. Knows the functions of different physiological systems of fish and understands their biology. 2. Identifies edible fish, prawns, crabs and molluscs and plans for culturing. 3. Knows the life history of all these edible aquatic forms and identifies their importance in aquaculture. 4. Understands the reasons for fish migration. 5. Understands harvest techniques and follows to get good results. 6. Knows transportation methods. 7. Understands the functions and make of different crafts and gears. 8. Prepares fish farm pond with all its requirements. 9. Collects seed from natural surroundings. 10. Follows good methods to identify and control fish diseases.

B.Sc., Zoology – DSE-B Sericulture	<ol style="list-style-type: none"> 1. Explains types of silkworms and rearing methods. 2. Practices different cultivation methods of mulberry. Adopts best intercultivation process. 3. Takes preventive measures for controlling pests and diseases of silkworms and mulberry. 4. Selects good quality of cocoons for silk reeling to get good yarn. 5. Collects various byproducts and utilizes at its best for getting good income.
B.Sc., Zoology Immunology and Animal Biotechnology	<ol style="list-style-type: none"> 1. Adopts to improve immune system and maintains good health. 2. Understands types of immunity, antigens, antibodies and their role in disease prevention/ immune system. 3. Understands complement system and immune responses. 4. Knows about auto immune diseases and identifies reasons. 5. Understands tumor technology and organ transplantation. 6. Knows the importance of stem cell in disease prevention.
B.Sc., Zoology – DSE-C Fish Genetics and Seed Technology	<ol style="list-style-type: none"> 1. Knows about the evolution of fish karyotypes, inheritance of color, scales and other morphological traits in fishes, factors of inheritance, inheritance of qualitative traits, concepts of heritability, methods of heritability. 2. Learns about mechanism of fish chromosome manipulation, hybridization, androgenesis, gynogenesis, polyploidy. 3. Understands about transgenic fishes, transgenic fish production, importance of transgenic fish in aquaculture. 4. Understands about cryopreservation technique, cryopreservation of sperms, eggs and embryos and importance of cryopreservation in fishery industry. 5. Learns the importance of fish seed collection, collection of brackish water prawn seed. 6. Learns the importance of bundh breeding, wet and dry bundhs. 7. Knows about fish breeding techniques, importance of induced breeding and techniques. 8. Understands about breeding of silver and grass carp, breeding common carp, importance of carp fish hatcheries. 9. Learns the importance of shrimp hatchery technology and their life cycle. 10. Understands preparation of brood stock, and selection of spawners and egg collection. 11. Knows hatchery management, harvest and transport of larvae, fishery institutes of India and their functions.

				B.Sc., Zoology – DSE-D Silkworm Breeding and Grainage	<ol style="list-style-type: none"> 1. Understands the differences between inbreeding and out breeding, understands types of breeding methods. 2. Learns the importance of heterosis about hybrid vigour. 3. Knows the importance of parental races and distribution of races. 4. Knows about voltinism, moultnism. 5. Understands about seed multiplication centres, seed crops and seed markets. 6. Knows the importance of pupal examination in seed cocoon selection and identifies bad cocoons. 7. Knows grainage plan and equipments. 8. Knows about moth synchronization, selection of moths for coupling, oviposition, types of egg production and importance of moth examination in seed production. 9. Understands storage of spring and autumn eggs, hibernation schedules, importance of acid treatment, artificial treatment, formalin treatment before acid treatment and incubation is important. 10. Learns about by products commercial value and applies knowledge to start entrepreneurship.
18	B.Sc	<p>U.G - Statistics</p> <p>1. Demonstrate the ability to use skills in statistics and its related areas of work for Formulating and tackling different methods of problems and identifying and applying</p> <p>Appropriate statistical principles and research methodologies to solve a wide range of problems associated with statistical data.</p>	<p>. Students will get opportunities in the higher learning into PG and PhD programmes.</p> <p>. Employment in State Government like TSPSC, DSC (Teacher Job) and also in Science and Technology related research organizations.</p> <p>. Promotions in the employment</p>	<p>U.G-Semester-1 DSC-1 DESCRIPTIVE STATISTICS &PROBABILITY</p>	<p>1.The students will understand the origin of to identify sources of primary data. You have looked into various methods used to collect primary data and secondary data. The course presents an understanding of the Basic statistics and probability and haves theorem.</p>
				U.G-Semester-2 DSC-2 Mathematical Expectation and moment inequality.	<p>Studying the basics of pmf and pdf.</p> <p>The course deals with the study of random variables, probability generating functions, Cauchy-Schwartz -inequality</p> <p>The students will be able to identify addition multiplication theorem</p> <p>themselves with Bivariate distribution properties</p>
				U.G-Semester-3 DSC-3- Discrete Distributions	<p>. On completion of the course the students will have gained an understanding of the processes</p> <p>involved in the formation Applications of Bernoulli, passion, negative, geometric distribution</p>

U.G-Semester-4 DSC-4-Continuous Distributions	<p>Students learn to identify, describe and classify Applications of Rectangular distribution, Normal distribution, Gamma, Beta, Cauchy Distributions.</p> <p>On completion of the course the students will have gained an understanding of the processes</p> <p>involved in the formation of different distributions</p>
U.G-Semester-5 DSC-5 – CORRELATION, REGRESSION, SAMPLING	<p>1.The course Bivariate distribution,correlation,Scatter Diagram, Karl Pearson's Coefficient of Correlation and example problems, Properties of Correlation Coefficient. Correlation coefficient for a bivariate frequency distribution. Derivation of Spearman's rank correlation coefficient formula, Computation of Rank Correlation Coefficient, Measures of correlation ratio, Properties of correlation ratio.</p> <p>2.Regression analysis is a mathematical measure of average relationship between two or more variables, In regression the variable whose values are influenced by other variable(s) is called the dependent variable. The variable(s) which influence the dependent variable are called independent variables. In bivariate data if the points cluster around a curve in the scatter diagram the curve is called the regression curve. If it happens to be a straight line it is called the line of regression.</p> <p>3.In the case of trivariate data the values of the dependent variable are estimated using the equation of the regression plane. Multiple correlation coefficient measures the closeness of association between the observed values of a variable and the estimated values of that variable based on linear regression of that particular variable on other variables.</p> <p>4.A qualitative characteristic is one that cannot be directly measured. Qualitative characteristics are often referred to as attributes. A categorical variable is a variable that can be measured using a fixed number of categories.</p> <p>5.A quantitative variable is one that can be directly measured. On the other hand a qualitative variable is one that cannot be directly measured. A qualitative variable is often referred to</p>

U.G-Semester-5 DSE-A Design of Experiments	<p>1. Student learned various Analysis of Variance one-way Classification Mathematical , Model, Estimation of sum of squares Analysis of Variance One way classification F-Test</p> <p>2. The Completely Randomized Design (CRD) E(MS), F-Test</p> <p>3. The student has knowledge about the exploration strategy and will have to be laid out taking Analysis of variance one way and two way</p>
U.G-Semester-5 DSE-B – Bio Statistics	<p>1. student learned various direct assays, Fellers theorem and relation ships</p> <p>2. student studied and outcomes of result Logit and Probit approaches when dose response curve for standard preparation is unknown, quantal responses Methods of estimation of parameters, estimation of extreme quantiles</p> <p>Dose allocation schemes, polychotomous quanta response, estimation of points on the quantal response function.</p> <p>2. Student focused on statistic genetics – 1 and 2 and Mendel laws also</p>
U.G-Semester-6 DSC-6- Estimation and Testing of Hypothesis	<p>1. The course deals with the study of estimator of population parameters., Find the unbiased estimators of population parameters.</p> <p>2. The study of Sign and Run Tests Wilcoxon’s signed rank test and Mann-Whitney – Wilcoxon U Test</p> <p>Median test, Kolmogorov - Smirnov test and Kruskal - Walli’s test</p>
U.G-Semester-6 DSE-C- Operations Research	<p>1. Student will get knowledge of the basic fundamentals of Linear programming problems, like simple, primal, dual, slack, surplus, artificial variables, Big –M Method, two phase simplex method, IBFS, Assignment and Unbalanced assignment problems.</p>
U.G-Semester-6 DSE-D- Statistical computing using C/C++ programming.	<p>1. On completion of the course, the student will have gained an understanding of Statistical programmes using c/c++ programmes.</p> <p>2. To impart knowledge about mathematical and statistical data using c/c++ programming and generate the programme with the given data.</p>

				<p>Skill Course-3- Statistical Data Analysis Using MS-Excel</p> <p>1.The students who want to venture in the fields of computer applications, MS-EXCEL window components, AVERAGE,AVERAGEIF AVERAGEIFS etc..</p> <p>2. The course intends to expose the students to the fundamentals of RANK forecast, Normal distribution function,VAR,tDist function etc..</p>
				<p>SkillCourse-4- STATISTICAL TECHNIQUES FOR RESEARCH METHODS</p> <p>1. Understand the behavior of good research,. Review of literature helps the researcher to identify the gaps to be addressed and also justify the importance of the present study.</p> <p>2. To interpret and explain sampling designs.</p> <p>3. Understand and interpret the Editing enhances the quality of the data that is collected. It can be field editing or centralized editing. Classification of data aims at bringing together items having similar characteristics. Classification can be chronological or geographical or qualitative or quantitative. The collected information can be presented concisely and neatly in the form of a table that consists of a number of rows and columns. Caption refers to the name given to the columns and sub-columns. The left hand side of the rows are called stubs.</p> <p>3. understand and explain the Technical and popular report.</p> <p>.</p>
19	U.G – Physics	After learning this program, learner will be able to: 1. Understand the basic concepts of Physics and their significance in day to day life.	1. Demonstrate the ability to use skills in Physics and its related areas such as Electricity, Electronics, Spectroscopy and modern Physics in their teaching and research. 2. Get opportunities for higher education ie Post Graduation and Research programs.	<p>DSC-1- Mechanics</p> <p>1.The students will be able to understand the vector calculus and are able to explain the linear momentum, collisions and kinematics.</p> <p>2.This block presents the Mechanics of Rigid bodies. Students will learn about Center of Mass,Reduced Mass ad rotational motion.</p>

3. Employment in Scientific Organizations/Industries / educational Institutions.
 4. Promotions in the employment

DSC-2-Waves and Oscillations	<p>Studying the Fundamentals of Vibrations and Oscillations, help the students to understand the Linear combinations of SHM and formation of Lissajous figures.</p> <p>After studying about the waves in Elastic Media, students will be able to explain about the longitudinal and transverse waves.They will be in a position to explain the apparent change in the frequency of waves.</p> <p>The students will be able to understand the principle of Superposition theorem.</p> <p>4.Students after learning about Fourier analysis method they will know how to use it in electronics, acoustics and communications and also they understand about the ultrasonic waves and its applications.</p>
DSC-3- Thermodynamics	<p>1.Students will be able to explain the distribution of molecular speed of gases, also able to describe the measurements of temperatures using various methods.</p> <p>2.Students will be able to describe the application of Second law of Thermodynamics in the formation of thermodynamic temperature scale and able to explain how Entropy is a measure of disorder.</p> <p>3.Able to explain Critical temperature,able to pinpoint CFC effect on Ozone layer and also explain the Compton effect and Dual nature of matter.</p>

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DSC-4- Optics	<p>1. Students will be able to understand the laws of reflection and refraction and explain the conditions under which total internal reflection occurs. They also know the formation of Newton's rings.</p> <p>2. Students will be able to explain the phenomenon of Fresnel and Fraunhofer diffraction and able to discuss dispersion and resolving power of a diffraction grating.</p> <p>3. Students will be able to understand the light waves have transverse nature and unpolarized light into plane polarized light by using a polaroid. They learn the law of Malus. They will explain the angle of rotation produced by an optically active substance with the help of a polarimeter.</p> <p>4. Students will be able to explain the principle concepts of Spontaneous and Stimulated emission and also various applications of lasers. They will understand the holography principles in various fields and able to explain the principle of Optical fiber and their classifications.</p>
DSC-5 – Electromagnetism	<p>Students will be able to discuss electric field and its intensity and will explain Gauss's Theorem and its applications. Students will get knowledge about capacitance of isolated sphere, concentric spheres and cylindrical condensers.</p> <p>2. Students will be able to distinguish between the velocity of the variation of the electrical field and the drift velocity and explain why the resistivity of a conductor does not depend on the size or sphere of the conductor. They will understand the laws by applying them to single and multiple loop circuits. They also learn about the mesh and node analysis.</p> <p>3. Students will be able to understand how to calculate the magnetic field and lines of induction. They also learn the concept of Magnetic induction due to a solenoid carrying current. They also learn about the potential energy associated with the loop.</p> <p>4. Here the student will understand about the inductance of a solenoid. They learn the concept of electromagnetic induction in which they understand about the concept of Faraday's law</p>

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DSE-A – Basic Electronics.	<ol style="list-style-type: none"> 1. Student learned different processes of electrical conduction in semiconductors and various configurations of a transistor when they used as active circuit element. 2. They will be able to discuss about a Biasing a transistor , schemes of Biasing and load line analysis. They will learn about the concept of amplifiers and also the feedback effect. 3. The student will get the knowledge about Oscillators and multivibrators. They learn about Barkhausen’s criterion. 4. Students will understand the process of rectification. They also learn about different types of Rectifiers and also the concept of filters and their need in rectification process. They understand about the voltage regulation also.
	<p>1Students will be able to understand the properties of materials at different temperatures. Students are able to discuss technilogicproperties of metals. of minerals and understand the properties of materials at different temperatures. They will explain about Corrosion</p> <p>2.The students will be introduced to the process of Thin film deposition and able to discuss the proceoor.</p> <p>3 They learn about Electrica; properties, Dielectrc propertie and also Optical properties of Thin films</p>
DSE-B–Material Science	<p>1Students will be able to understand the properties of materials at different temperatures. Students are able to discuss technilogicproperties of metals. of minerals and understand the properties of materials at different temperatures. They will explain about Corrosion</p> <p>2.The students will be introduced to the process of Thin film deposition and able to discuss the proceoor.</p> <p>3 They learn about Electrica; properties, Dielectrc propertie and also Optical properties of Thin films</p>

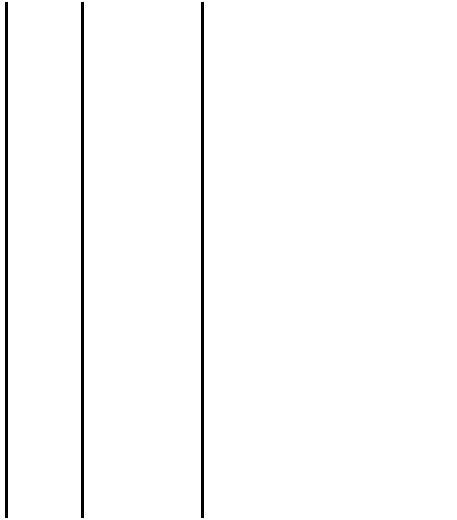
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DSC-6- Modern Physics	<p>1.The topics will make to understand about the Bohr's theory and somerfeld's theory. Theyalsounder stand molecular spectra and pauli's exclusion principle.</p> <p>2.Able to explain about the Photoelectric effect and relation between different types of velocities in matter wavesThey will understand Schrodinger wave equation ,eigen values and eigen functions</p> <p>3.Studenta are exposed to Natural Radio activity and able to evaluate the disintegration constant,half life and mean life. Also they understand aboutv Radiation detectors and learn about artificial radio activity.</p> <p>4Students will learn about Nuclear models. Theu are able to distinguish the phenomenon of Nuclear fission and fusion. They will know about the classification of elementary particles</p>
DSE-C- E Digital Electronics	<p>1.Student will get knowledge of ideal characteristics of operation Amplifier. They know the feed back arrangements . They learn about measuring instruments.</p> <p>2.They will be able to explain Boolean operatos and discuss Demorgan's theorems. They will be knowing different types of Flip flops. They will get knowledge about microprocessors . concept of Differential amplifier and its characteristics.the Operational amplifiers and basic fundamentals of earth science as applied to the interaction between human activity and</p> <p>3.They will understand the need for modulation. Discuss the detection and generation of FM eaves. They learn different electronic units that constitute the super heterodyne receiver.</p>

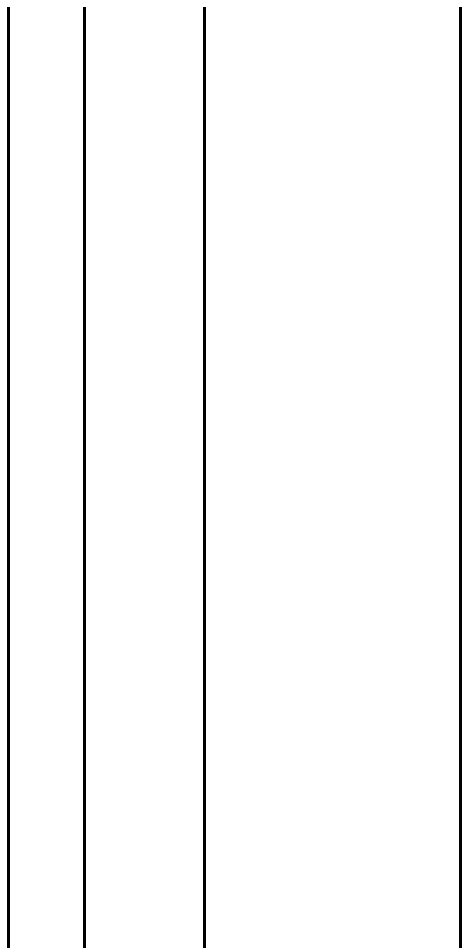
				<p>DSE-D-Physics of Nano materials</p>	<p>1.On completion of the course, the student will gain the knowledge about nano materials , their classification and how these materials are synthesized ,also they learn the characteristic techniques.</p> <p>2.Students will be able to understand the influence of dimensionality of the object at nanoscale and their propertis,also learn the scientific perspective of nanodimensions in various materials.</p> <p>3. Students will be able to distinguish between optical obsorption and transmission, also able to explain the concept of Phonons, and explain elasic modulus.</p> <p>4. Able to explain meso structur, describe the quantum electronics. Geet knowledge about Super conductors and their applications, understand the sensing phenomena, and types of sensors.</p>
				<p>Skill Enhancement Elective SEE-1.Basic skills in Electricals</p>	<p>1.Students will learn types of electric circuits and what is closed loop and open loop etc.They will understand how to handle the electric circuits and the precautions that they should tske.</p> <p>2.They will be in a position to explain AC and DC currents and voltages and also the use of them.</p> <p>3. They understand the concept of earthing and also the importance of earthing. They will learn about the different methods of wiring and also know about Transformers and their use in electrical circ</p>
				<p>Skill Enhancement Elective-SEE-2 MobilePhone Repairing and Maintenance</p>	<p>1.Understand the behavior of components in electronic circuits. They know how to measure voltage, current and how resistance works in the circuit</p> <p>2.They will come to know depending on what factors mobiles are classified as different types of mobiles. They understand their characteristics and how to handle them with care. They will study different technologies involved in different mobiles and know their difference .</p> <p>They understand what type of repairs generally occurs in mobile phones. Hoe to tackle these repairs and how to maintain all types of mobile phon</p>

20	U.G(Mathematics)	<p>After learning this program, learner will be able to:</p> <ol style="list-style-type: none"> To impart the fundamental knowledge and concepts of geology. To develop competent professionals in the field of geology with high moral and ethical values. To enhance the skills in for those who are already in the industry. To prepare students to the job market competition. To strengthen the tempo on scientific research. To prepare students for professional interaction and leadership. To promote student's commitment to self-study and life-long learning. 	<ol style="list-style-type: none"> Ability to acquire in-depth knowledge of algebra, calculus, geometry, differential equations and several other branches of mathematics. This also leads to study of related areas like computer science and physical science. Thus, this Program helps learners in building a solid foundation for higher studies in mathematics Think in a critical manner. Familiarize the students with suitable tools of mathematical analysis to handle issues and problems in mathematics and related sciences. Acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of mathematics and statistics. Provide students/learners sufficient knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics. Encourage the students to develop a range of generic skills helpful in employment, internships and social activities. 	<p>U.G - Semester-1, DSC -1: Differential Calculus</p> <p>U.G - Semester-2, DSC -2: Differential Equations</p>	<p>To define a limit and continuity and differentiability of a function and to prove that every differential function is continuous but not conversely</p> <p>To Use Leibnitz's theorem to find nth derivatives of products of two functions.</p> <p>To prove Euler's theorem on homogeneous functions</p> <p>To prove the mean value theorems and discuss the applicability of these theorems to given intervals .</p> <p>To apply the Taylor's theorem and Maclaurin's theorem to expand a given function .</p> <p>To apply L'Hospital's rule to evaluate the limits which takes the indeterminate form.</p> <p>To derive the equations of tangent and normal to a given curve at a given point.</p> <p>9. Use the concepts like points of inflection, singular points,</p> <p>To solve the differential equations of first order and first degree: homogeneous and non-homogeneous equations</p> <p>linear and the Bernoulli equations. To Solve an exact differential equation.</p> <p>To Find the orthogonal trajectories of families of curves</p> <p>To solve a system of simultaneous linear differential equations</p> <p>To Solve a linear homogeneous and non-homogeneous differential equation of second and higher order with constant coefficients</p> <p>To solve a linear homogeneous and non-homogeneous differential equation with variable coefficients</p> <p>To Solve a linear partial differential equation by Lagrange's method</p>
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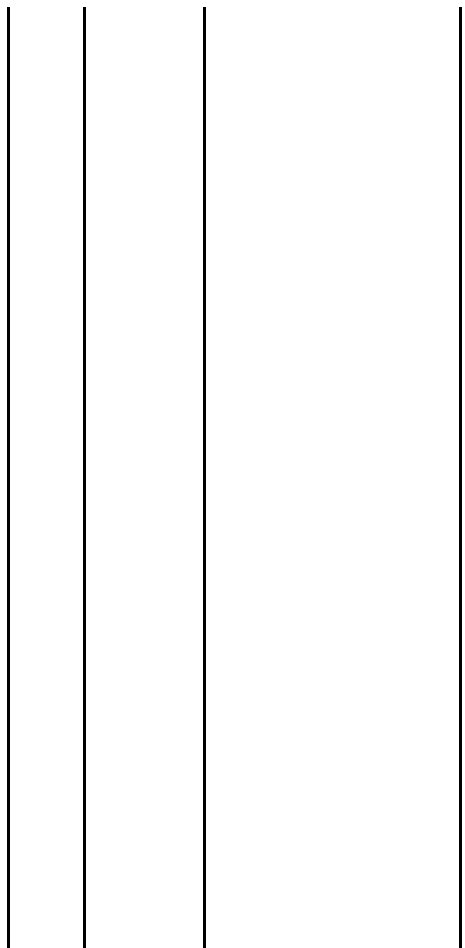
<p>U.G - Semester-3, DSC -3: Real Analysis</p>	<p>To Determine the l.u.b and the g.l.b of a bounded set and State completeness axiom and Dedekind's property and establish their equivalence.</p> <p>To prove Bolzano Weierstrass theorem.</p> <p>To prove that every nonempty open subset of \mathbb{R} is a union of countable disjoint collection of open intervals.</p> <p>To prove that a monotonic sequence is convergent if and only if it is bounded</p> <p>To prove Cauchy's general principle of convergence for sequences.</p> <p>To Prove some theorems related to the convergence of series with positive terms.</p> <p>To learn the tests :</p> <p>Comparison test</p> <p>Ratio test</p> <p>Cauchy's root test</p> <p>D'Alembert's Ratio test</p> <p>Cauchy's conditional test ;</p>
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U.G - Semester-4, DSC -4: Algebra	<p>To define a group, subgroup, cyclic group and to prove properties of groups, subgroups</p> <p>To prove Lagrange's theorem for finite groups</p> <p>To define normal subgroup of a group and quotient group and to prove some properties of quotient groups</p> <p>To prove fundamental theorem of homomorphism and certain isomorphism theorems in groups and to prove Cayley's theorem</p> <p>To define a ring , integral domain , field , ideal and quotient ring and its elementary properties</p> <p>To prove fundamental theorem of homomorphism and certain isomorphism theorems in rings</p>
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<p>U.G - Semester-5 , DSC -5: Linear Algebra</p>	<p>To prove certain important elementary properties of vector spaces and determine the dimension of certain Vector spaces</p> <p>To prove elementary properties of quotient spaces and determine the dimension of a quotient space.</p> <p>To prove the set of all linear transformations of an m-dimensional vector space V into an n-dimensional vector space W over the same field F is again a vector space over F of dimension mn.</p> <p>To prove the rank theorem which gives a relation between the rank and the nullity of a linear transformation.</p> <p>To prove that the set $\text{Hom}(V, V)$ of all linear operations on a vector space V over F is an algebra over F.</p> <p>To prove the fundamental theorem of homomorphisms.</p> <p>To determine the linear transformation whose matrix is given</p> <p>Find the rank of a matrix by reducing the matrix to its normal form</p> <p>To solve linear homogeneous equations with the help of rank of a matrix</p> <p>To solve linear non homogeneous equations</p>
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<p>U.G - Semester-5, DSE –A: Three Dimensional Geometry</p>	<p>Find the angle between two lines in terms of their direction cosines.</p> <p>Determine the angle between two given planes.</p> <p>Find the equation of the system of planes through the line of intersection of the planes</p> <p>Obtain the equations of the planes bisecting the angles between two given planes.</p> <p>Obtain the general equation of a straight line intersecting two given straight lines.</p> <p>Obtain the length and the equations of the shortest line segment between two skew lines</p> <p>Find the intersection of two spheres and the equation of a sphere through a circle.</p> <p>Find the intersection of a sphere and a line.</p> <p>Find the angle of intersection of two spheres</p> <p>Derive the equation of a cone with a given vertex and a conic as guiding curve.</p> <p>Obtain a necessary and sufficient condition for a plane π to touch a cone.</p>
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U.G - Semester-5, DSE –B: Linear Programming Problems	<p>To learn that types of Solutions of LPP and also the methods of solving LPP in particular Graphical method.</p> <p>To understand the need, importance and the use of simplex method.</p> <p>To understand how to express the given LPP into matrix form.</p> <p>To learn the methods of resolving degeneracy in LPP, and very useful method to resolve degeneracy in LPP.</p> <p>To solve the LPP using Big-M method.</p> <p>To know the method of solving LPP using two - phase simplex method.</p> <p>To apply the knowledge to convert the primal problem into its dual form.</p> <p>To form a given problem into an LPP and then convert it into a transportation problem.</p> <p>To obtain IBFS for TP and optimal solution to TP and apply these different methods to solve a transportation problem.</p> <p>To learn how to test for the optimality of the solution to given TP.</p>
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<p>U.G - Semester-6 , DSC -6: Numerical Methods</p>	<p>Find an approximate solution of a given algebraic or transcendental equation using Bisection method, Regula Falsi method, Newton-Raphson method and Iteration method.</p> <p>To solve the given system of linear equations</p> <p>by using various direct methods like Cramer’s method, Matrix inversion method, Gauss elimination method and Gauss - Jordan elimination method.</p> <p>To solve the given system of linear equations by using iterative methods like Jacobi’s method and Gauss-Seidel method.</p> <p>Find the polynomial interpolation and interpolate the value of the function for any given value of x of the given data by applying the Newton’s forward and backward difference and central difference interpolation formulae and also</p> <p>Newton’s divided difference interpolation formula and/or Lagrange’s interpolation formula.</p> <p>Find a real root of given algebraic equation by using inverse interpolation.</p> <p>To approximate the given data function that fits with a first degree polynomial (a straight line) and second degree polynomial (a parabola) by the method of least squares.</p> <p>7.To Learn how to fit a curve of the exponential form to the given data by the method of least squares.</p> <p>8. To obtain the first order derivative (or higher</p>
<p>U.G - Semester-6, DSE –C: Discrete Mathematical Structure</p>	

				U.G - Semester-6, DSE- D: Vector Calculus	<p>To learn different ways of multiplying vectors.</p> <p>To find derivatives, partial derivatives and total derivatives of vector functions.</p> <p>To use the methods of vector calculus to study the differential geometry of space curves</p> <p>To Apply gradient, divergence and curl on scalar point and vector point functions.</p> <p>To find the limits of integration for a given region.</p> <p>To evaluate double integrals and change the order of integration for a given double integrals.</p> <p>To evaluate triple integral by changing variables and apply double and triple integrals to find area and volume of the given region.</p> <p>To evaluate a given line integral over a curve C by parameterizing C.</p> <p>To find a potential function f for a given conservative vector field</p> <p>To evaluate a surface integral of a function of two variables over a given surface</p> <p>To evaluate volume integrals and solve problems on vector integration.</p> <p>To apply Green's theorem to find area enclosed by simple closed curves in plane</p> <p>To evaluate complex surface integrals easily.</p> <p>To derive formulae for various forms of surface integrals interms of line integrals.</p> <p>To apply divergence theorem to transform surface integrals to volume integrals and viceversa.</p>
				Skill Course-3 Prabability and Statistics	
				SkillCourse-4 Graph Theory	
21	U.G - Geology	<p>1. To impart the fundamental knowledge and concepts of geology.</p> <p>2. To develop competent professionals in the field of geology with high moral and ethical values.</p> <p>3. To enhance the skills in for those who are already in the industrv.</p>	<p>1. Demonstrate the ability to use skills in Geology and its related areas of technology for formulating and tackling geosciences-related problems and identifying and applying appropriate geological principles and methodologies to solve a wide range of problems associated with geosciences.</p> <p>2. Students will get oppornunities in the higher</p>	U.G-Semester-1 DSC-1- General Geology & Physical Geology	<p>The students will understand the origin of our solar system and planets, including earth. The</p> <p>students are exposed to the Geological time scale and be able to appreciate the dynamics of earth evolution through time.</p> <p>The course presents an understanding of the processes in action on the earth's surface and</p> <p>their impact on man and his institutions</p>

<p>4. To prepare students to the job market competition.</p> <p>5. To strengthen the tempo on scientific research.</p> <p>6. To prepare students for professional interaction and leadership.</p> <p>7. To promote student's commitment to self-study and life-long learning.</p>	<p>learning into PG and PhD programmes.</p> <p>3. Employment in State mining, Groundwater Departments and also in Science and Technology related research organizations.</p> <p>4. Promotions in the employment</p>	<p>U.G-Semester-2DSC-2-Crystallography & mineralogy</p>	<p>Studying the basics of mineralogy and crystallography helps in understanding and building the overall knowledge in Geology. The course deals with the study of minerals, their chemistry and identification in hand specimen. Further, it also deals with the study of crystals with respect to their morphology, symmetry and the normal crystal classes. The students will be able to identify common rock-forming minerals and hand specimens as well as in thin sections. Besides, they will familiarise themselves with Bavarias crystal lattice</p>
		<p>U.G-Semester-3 DSC-3-Igneous Petrology</p>	<p>Petrology is the science of rocks. The course will help the students to exhibit an improved understanding of fundamental petrologic processes and common rock types. On completion of the course the students will have gained an understanding of the processes involved in the formation of igneous rocks, their textures, structures, classifications and their importance</p>
		<p>U.G-Semester-4 DSC-4-Sedimentary and metamorphic geochemistry</p>	<p>Students learn to identify, describe and classify rocks using hand specimens. The students will also acquire skills to determine and interpret geochemistry of rocks. On completion of the course the students will have gained an understanding of the processes involved in the formation of sedimentary and metamorphic rocks, their textures, structures, classifications and their importance</p>

<p>U.G-Semester-5 DSC-5 – Structural Geology & Economic Geology</p>	<p>The course deals with geological structures resulting from the action of these forces on rocks. The student will gain knowledge of the geometry of the rock structures, understand the mechanism of the evolution of rock structures and its application in the field. The students learn the skills of identifying different structure and measurements using Brunton compass. This is fundamental to geological mapping. The student will gain knowledge about the stratigraphy and geology of India with emphasis on the Stratigraphy of India with respect to Paleozoic, Mesozoic and Cenozoic Era which will help in understanding the different episodes on the earth during the geologic past. The students will acquire skills that will enable to recognize different geological formation, their age and economic potential.</p>
<p>U.G-Semester-5 DSE-A Mineral Exploration and mineral Economics</p>	<ol style="list-style-type: none"> 1. Student learned various mineral prospecting and exploration principles and exploration strategies and applied in the field. 2. The geochemical exploration techniques involve sampling of rocks, soils, and water and plant species, which may show presence of ore. 3. The student has knowledge about the exploration strategy and will have to be laid out taking cognisance of geological, geomorphologic, and geographical conditions of the site.
<p>U.G-Semester-5 DSE-B – Mining Geology & Ore Geology</p>	<p>1. Mining being a key source of revenue generation for the Central as well as State governments, and an important job provider for Geologists, this course is designed to equip the undergraduate student with basic knowledge of key concepts of mining processes right from exploration to exploitation, together with an acquaintance of government regulations that control the mining and mineral conservation processes.</p>

U.G-Semester-6 DSC-6- Indian Geology & Paleontology	<p>1. The course deals with the study of Economic minerals, their chemistry and identification in hand specimen. Further, it also deals with the study of mineral with respect to their morphology.</p> <p>2. The study of Palaeontology encompasses the aspects of the age of the earth, chronological arrangement of rocks and appearance and evolution of life through the geologic time. The knowledge of palaeontology would enable the students to understand the changes that occurred in the history of the earth and relate them to their field observations.</p>
U.G-Semester-6 DSE-C- Environmental Geology	<p>1. Student will get knowledge of the basic fundamentals of earth science as applied to the interaction between human activity and the natural environment. Understand the occurrence and availability of both surface and subsurface water resources and the role of the hydrologic cycle and pollution. Understand the role of plate tectonics in causing earthquakes and how this understanding can aid the assessment of seismic hazard.</p>
U.G-Semester-6 DSE-D- Hydrogeology	<p>1. On completion of the course, the student will have gained an understanding of hydrogeological concepts, exploration, exploitation and recharge of groundwater and methods of monitoring groundwater quality and sources of pollution.</p> <p>2. To impart knowledge about groundwater, its movement, methods of its exploration, the criteria of its quality, methods of its conservation, recharge of groundwater monitoring of groundwater quantity and quality</p> <p>3. Students will be able to acquire skills of systematic hydrogeological surveys and water quality monitoring.</p>
Skill Course-3- Remote sensing & GIS	<p>1. The students who want to venture in the fields of computer applications, RS and GIS, AI, etc. Need to apprise themselves of the basics in Digital Image processing.</p> <p>2. The course intends to expose the students to the fundamentals of Digital Image processing, terminology, techniques and Digital Image Processing software.</p>

				SkillCourse-4-Geochemistry	<ol style="list-style-type: none"> 1. Understand the behaviour of elements in a geochemical context and relate this knowledge to how elements redistribute within the Earth. 2. To interpret and explain interactions between Earth Universe. 3. Understand and interpret the major processes that form and modify the Earth's crust and mantle. 4. Weathering systems and principles of chemical reactions, soil horizons and biogeochemical cycling 5. Major elements in rocks and minerals, geodynamic setting of elements, continental crust formation and The chemical composition of minerals and their structure, fractionation of rocks and minerals.
22	U.G(Botany)	To acquire basic knowledge and skills in certain applied branches to enable them for self employment, • To Inculcate interest in and love of nature with its myriad living forms such as various plants animals, birds, • To develop the ability for the application of acquired knowledge in various fields of life so as to make our country self sufficient • To Make aware of natural resources and environment and the importance of conserving it. • To appreciate and apply ethical principles to biological science research and studies	The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills, qualities and other attributes in the following areas <ul style="list-style-type: none"> • Knowledge and understanding • Intellectual skills • Practical skills Provide ability to pursue studies far beyond graduation as Master of Science in Botany 	U.G-Semester-1 DSC-1- Microbial Diversity, Algae and Fungi	<p>Will know the characters of microbes Will recognize algae and fungi in their daily life Explain general characters of algae, fungi Ability to draw diagrams</p>
				Bryophyta, Pteridophyta, Gymnosperms & Palaeobotany	<p>Can Explain plant evolution Describe the fossil plants and know the reasons for extinction Ability compare the archegoniates with algae</p>
				Plant Anatomy and Taxonomy	<p>Explain organisation of plant tissue Know about internal parts function Can arrange the plants in systematic manner based on their characters. To be a Taxonomist</p>
				Developmental Biology and Medicinal Botany	<p>Can explain development of male and female gametangium, fertilisation process and development of embryo, endosperm Can utilize the medicinal plants to related diseases. Follow traditional medicinal system</p>
				cell biology and genetics	Students will demonstrate knowledge and understanding of evolutionary biology.
				crop production	<p>Ability to understand and select appropriate soil for different crops Can know the various irrigation methods for agricultural crops Can gain knowledge in cutting, gathering, or reaping crops</p>

				<p>Plant tissue culture and genetic engineering</p> <p>Explain totipotency steps</p> <p>Describe cloning vectors</p> <p>Explain about gene transfers methods</p> <p><u>Know about transgenic plants pros and cons</u></p>
				<p>plant physiology and ecology</p> <p>Explain soil -plant-atmosphere-continuum process</p> <p>Know the difference between photosynthesis and respiration</p> <p>Understand about physiological aspects of phytohormones</p> <p>Explain about concept, biotic, abiotic, foodchain, foodweb and <u>biodiversity and conservation</u></p>
				<p>plant disease management</p> <p>Identify various diseases and know the causes</p> <p>Control the diseases by physical and chemical methods</p> <p>Understand recent trends in plant pathology</p> <p><u>Describe the IPM</u></p>
				<p>seed technology</p> <p>Know the importance of seed gene bank</p> <p>Prepare suitable seed containers</p>
				<p>biofertilizers</p>
				<p>floriculture</p>
23	U.G(Che mistry)	<p>To impart knowledge in fundamental aspects of all branches of chemistry</p> <p>To acquire deep knowledge in the study of physical, chemical, electrochemical and magnetic properties, structure elucidation using various techniques and applications of various organic and inorganic materials</p> <p>To acquire basic knowledge in the</p>	<p>Upon completion of the B.Sc Chemistry programme</p> <p>This course generate the human resources like chemistry teachers in the field of education, research chemist, analytical chemist, production chemist and data management & analyzing chemist for the chemical science industry.</p> <p>This course serves the society to create awareness about the nature of chemicals, their reactivity and applications in the various fields like drugs, pharmaceuticals, fertilizers, daily use products, cosmetics etc...</p> <p>Students will get opportunities in the higher learning into PG and PhD programmes.</p>	<p>Inorganic, Organic & Physical Chemistry-1 BS114CHE-E/T/U</p> <p>After completion of this course Learner can able to understand the electronic configurations, periodic trends, physical and chemical properties of Group IA & IIA elements.</p> <p>Demonstrate principles of semi micro analysis.</p> <p>Recollect the basic concepts and structural theory of organic chemistry.</p> <p>Demonstrate the various methods of synthesis, physical and chemical properties of alkanes, cycloalkanes, alkenes and alkydienes.</p> <p>Understand and demonstrate the concepts of atomic structure, periodic table, various chemical bonding, VBT, MOT and gaseous state.</p>

knowledge in the specialized areas of chemistry and

To train the students in various quantitative and qualitative analysis methods.

Promotions in the employment.

<p>Inorganic, Organic & Physical Chemistry-2 BS214CHE-E/T/U</p>	<p>After completion of this course Learner can able</p> <p>Understand the origin, Physical and chemical properties IIIA, IVA & VA Group elements.</p> <p>Utilize the compounds of elements in various applications.</p> <p>To estimate the amount and concentrations of various compounds and ions using titration and gravimetric methods.</p> <p>Understand the general properties, synthesis and properties of alkenes, aromatic compounds, halogen compounds, hydrogen compounds and epoxides and their utilization of applications in manufacturing f its derivatives</p> <p>Deal the solids, solutions and gasses matters in various conditions</p>
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<p>Inorganic, Organic & Physical Chemistry-3 BS314CHE-E/T/U</p>	<p>After completion of this course Learner can able</p> <p>Understand the origin, Physical and chemical properties VIA, VIIA & VIIIA Group elements.</p> <p>Utilize the compounds of VIA, VIIA & VIIIA elements in various applications.</p> <p>General properties, synthesis and properties of carboxylic acids and its derivatives esters, anhydrides, amides and acid halides. Applications in synthesis.</p> <p>to design the synthesis which involved Carbanion intermediate.</p> <p>Can determine surface tension, viscosity,</p> <p>Understand the Liquid crystals and its application.</p> <p>Can determine the physical constants like boiling points, melting point, relative lowering vapour pressure, osmotic pressure of dilute solutions.</p> <p>Apply of Ideal and non ideal conditions of solutions in various chemical processes.</p> <p>prepare colloids and emulsions and investigate its properties and applications.</p> <p>utilize adsorption and absorption phenomenon in various applications in extraction, isolation, chromatography, dyes and paints manufacturing.</p>
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<p>Inorganic, Organic & Physical Chemistry-4 BS414CHE-E/T/U</p>	<p>After completion of this course Learner can able</p> <p>Investigate the preparations and properties of coordination compounds with d and f –block elements.</p> <p>Synthesize and study the properties of nitroalkane, alkylnirites, amines and nitriles.</p> <p>Apply the stereo chemical aspects like classifying the molecules as Enantiomers, diastereomers, geometrical isomers.</p> <p>investigate optical activity of molecules, racemisation, preparation of racemic mixtures, resolution of racemic mixtures by physical and chemical methods.</p> <p>Give the absolute and relative configurational nomeclature notations to the stereochemical centers.</p> <p>Familiarize the physical & chemical differentiation of Geometrical isomers.</p> <p>Structural classification of carbohydrates.</p> <p>Elucidate the structure of D-Glucose, D-fructose and sucrose.</p> <p>Apply the chemical and physical properties of carbohydrate to know the various carbohydrates.</p> <p>Recognize the mono, ligo and poly saccarides.</p> <p>Apply the thermodynamic principles and concepts when</p>
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<p>Inorganic, Organic & Physical Chemistry-5 BS514CHE-E/T/U</p>	<p>After completion of this course Learner can able to Investigate the composition, stability magnetic properties and colour of metal complex.</p> <p>Examine the applicability of VBT and MOT and free electron concepts to verifying the structure and properties of metals in conductors, semi conductors and insulators.</p> <p>Examine the Hume-Rothery rules to examine the composition of alloys.</p> <p>Compare pure metals and alloys.</p> <p>Isolate, purification and modification in the state of metals from its ores.</p> <p>Give the names of heterocyclic compounds, design the synthesis of basic heterocyclic compounds. Investigate the properties of basic heterocyclic compounds.</p> <p>Examine the various types of amino acids; draw the structures of amino acids.</p> <p>Design the synthesis of various types of amino acids.</p> <p>Find the structures of proteins.</p> <p>Explain the structures, functions and sources of vitamins and hormone.</p>
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<p>Green Chemistry, Organic Chemistry, Environmental Chemistry- DSE (A)/DSE1 BS514CHE(DSEA)-E/T/U</p>	<p>After completion of this course Learner can able Examine the viability of green chemical methods implementation in the research and industry.</p> <p>Examine the applicability of Green chemistry principles.</p> <p>Evaluate the atom economy, atom utilization, green solvents, reagents, catalysts and chemical hazards accidents.</p> <p>Design the various kinds of pericyclic reactions and explore its stereochemistry.</p> <p>Design fundamental asymmetric synthetic reactions.</p> <p>Can examine the issues related the environment like water, air, noise & sound, soil and various kinds of waste pollutions and</p>
<p>Agrochemicals, Organic Chemistry, Nanomaterial Chemistry - DSE (B)/DSE-2 BS514CHE(DSEB)-E/T/U</p>	<p>After completion of this course Learner can able to Identify the source of plant nutrients, fertilizers and essential elements.</p> <p>Synthesis of new lead molecules as pesticides</p> <p>Examine the activity and efficiency of existing pesticides.</p> <p>Development of the methods for Agrochemical residue analysis</p> <p>Development of new pesticides</p> <p>Rearing of Bio control agents for Insect Pest Management Micronutrient Research.</p> <p>Synthesize, characterization and innovative applications of nano materials.</p>

<p>Inorganic, Organic & Physical Chemistry-6 BS614CHE-E/T/U</p>	<p>After completion of this course Learner can able to Judge the structures, design the synthesis and examine the properties of metal coarbonyls and nitrosyls.</p> <p>Examine the properties and applications of aqueous and non aqueous solutions</p> <p>Design the synthesis organo metallic compounds and evaluate its reactivity in synthesis.</p> <p>Isolate. Characterize, elucidate the structure and design the synthesis of natural products from natural resources.</p> <p>Apply the theories, strategies and principles of various synthetic strategies to design synthesis of organic compounds and heterocyclic compounds.</p> <p>Apply the HNMR and MASS spectral methods to analyze the structures of organic compounds.</p>
<p>Drug Chemistry and Enzymes DSE (C)/DSE-3 BS614CHE(DSEC)-E/T/U</p>	<p>After completion of this course Learner can able Design Synthesis, examine the mode of actions of various drugs used to treat various diseases.</p> <p>Classify the enzymes, predict the enzyme activity, mechanism and inhibition in various enzymatic reactions.</p>
<p>Polymer Chemistry, Computational Chemistry, Separation Techniques and Chromatography -DSE (D)/DSE-4 BS614CHE(DSED)-E/T/U</p>	<p>After completion of this course Learner can able Examine the type of polymers based on various aspects. Analyse the properties, design the synthesis and evaluate the applications of polymers.</p> <p>Families the fundamentals of computational chemistry an study the conformational structure and calculate the energies of molecules.</p> <p>Extract the solid or liquid compounds from mixtures using solvent extractions.</p> <p>Utilize the various chromatographic methods to separate, analyze the quantity and purity of compounds using chromatography.</p>

				Instrumental analysis UG405 SEE (CHE1)-E/T/U	After completion of this course Learner can able Utilize the skills in operating and analyzing the mixtures or compounds using Gas Analyserd, pH meter, conductometry, Potentiometry, Colorimeter, UV-Visible and IR spectroscopy
				Cosmetic Chemistry UG405 SEE (CHE2)-E/T/U	After completion of this course Learner can able Identify suitable addends used, formulation, examine quality checks and design the production of cosmetics.
24	MA(Economics)	<p>1. To inculcate and develop aptitude to integrate economic theory and practices of broad development aspects of international and national economic policies and analysis of different sectors.</p> <p>2. To train students to gain knowledge in quantitative and econometric tools to handle large economic data and carry out data analysis of real life economic issues.</p> <p>3. To teach a wide range of knowledge in current economic issues and gaining analytical skills, including problem-solving, project work and presentation so as enable students to take prominent roles in a wide spectrum of employment and research</p>	<p>1. Demonstrate a degree of mastery, at a level higher than the requirements in the appropriate master's program, over the area of the specialization of the program.</p> <p>2. Carry out research independently and/or jointly in disciplinary or interdisciplinary Areas of Economics.</p> <p>3. Write and present a substantial report/document on issues or problems of concern to the program. 4. Demonstrate the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.</p> <p>4. Get wide range of job opportunities in industry as well as in government sector.</p>	<p>P.G-Course-1 Micro Economics</p>	<p>1. It helps the students to enrich their basic understanding and logical reasoning.</p> <p>2. It give more insights about risk and return, methods of managing risks, diversifying risks, probabilities of getting more returns on investment made.</p> <p>3. The course helps to know the psychological and behavioural factors involved in demand, consumption, marketing and trading.</p> <p>4. The students can familiarize about various production technologies, production functions and markets.</p> <p>5. This course also enables the students to know about the following aspects that can definitely influence in taking intellectual decision particularly in the situations of dilemma and uncertainty as how to manage problems and take optimal decisions.</p>
				P.G-Course-2 Macro Economics	<p>1. The students understand the methods of calculating macro aggregates like national income, Inflation, unemployment and Balance of Payment.</p> <p>2. The students become familiar with the macro level data sources and gain interest for research in aggregative data and enable the student to understand and analyze the relationship between aggregates.</p> <p>3. The students will be able to make a critical evaluation of the economic performance of the countries and think of alternative policies and ways for fine tuning the economy.</p> <p>4. Help the students to devise mathematical modeling for</p>

<p>P.G-Course-3 Public Economics</p>	<ol style="list-style-type: none"> 1. Students should develop familiarity with some of the crucial issues in India's fiscal policy. 2. Students should develop familiarity with some concepts in public expenditure and public revenues system in Governmental activities. 3. Students should have a thorough understanding of the history of federalism and role of government in decision making. 4. Enables them to develop their ability of logical reasoning and critical thinking in constructing arguments regarding public policy. 5. Students would be able to critically evaluate use of economic policies.
<p>P.G-Course-4 Quantitative Methods</p>	<ol style="list-style-type: none"> 1. Students would be able to define and describe different types of functions, matrices, derivatives, and different rates related to finance. 2. Students would be able to interpret the results obtained by using quantitative tools like matrices and derivatives. 3. Students would be able to apply functions, matrices, and derivatives for solving real world problems related to economics. 4. Students would be able to analyse the economic relationships using functions, matrices, and derivatives.
<p>P.G-Course-5 Indian Economic Policies</p>	<ol style="list-style-type: none"> 1. Students will be able to identify sectoral contributions and changes of various sectors to the GDP of Indian economy. 2. Students will be able to critically evaluate emergence, performance of planning in India. 3. Students will be able to apply their knowledge on various Indian economic issues to suggest policy measures. 4. Students will be able to critically evaluate various problems faced by the Indian economy like poverty, inequality, unemployment and inflation.

<p>P.G-Course-6 Economics of Growth, Development and Planning</p>	<ol style="list-style-type: none"> 1. The Course helps the students to understand the basic concepts in economic growth and economic development. 2. It provides some measurement tools and that will help the students to identify and evaluate the present scenarios. 3. At the end of this course, the students learn the basic ideologies through various theories and to improve the critical thinking. 4. It helps them to reconstruct the arguments and evaluate the ideas and issues in different perspectives
<p>P.G-Course-7 International Economics</p>	<ol style="list-style-type: none"> 1. The course helps the students to understand the basis of international trade and how does international trade contribute for the economic growth and development of different nations. 2. The students become familiar with theories and relevant models on international trade. 3. The students should be aware of trading policies, its consequences on the economy and they become capable to analyze and identify which policies are needed for the development of the economy through trade according to the nature of the country. 4. The students should understand the various international organizations which promote for economic, political and financial trading relationship and co-operation between countries.
<p>P.G-Course-8 Industrial Economics</p>	<ol style="list-style-type: none"> 1. The Course helps the students to engage the knowledge of the functioning of the firms and industries in a precise manner. 2. At the end of this course, the students learn the basic ideologies through various aspects and frameworks of the firms and industries. 3. It helps them to make knowledge about the market situations and to take care of the investment decisions in the industrial activities

				<p>P.G-Course-9 Agricultural Economics</p> <ol style="list-style-type: none"> 1. Students would be able to know the importance and the interdependence of agriculture sector with other sectors. 2. Students would be able to understand the theories, models and different systems related to the subject. 3. Students become aware about the production, demand, and supply and price determination of agricultural products. 4. Enable students to know about agri-business and different market situations; and to understand different types of credit, reforms and policies and the impact of each of them.
				<p>P.G-Course-10 Environmental Economics</p> <ol style="list-style-type: none"> 1. Students should be familiar with issues related to the environment and they try to find innovative ideas to overcome the problems. 2. The course helps to identify different economic theories and apply those to environmental issues. 3. It helps to develop environmental protection initiatives among students. 4. It helps to create and implement various policies regarding nature protection.
25	<p>P.G – M.Sc. Psychology</p>	<ol style="list-style-type: none"> 1. To provide advanced knowledge and skills in major areas of Psychology. 2. To develop an understanding of why the people feel, think and behave the way they do and the factors that influence feelings, thinking and behavior of people. 3. To develop professionals for providing professional services to the people who need mental health care. 4. To develop professional ethics 	<ol style="list-style-type: none"> 1. The students will acquire advanced knowledge and skills in different areas of psychology 2. Students may choose their career as professional counselors or academic positions in educational institutions. 3. Students can pursue higher studies in research and professional areas recognized by Rehabilitation Council of India (RCI) 4. students will have better employment opportunities in various fields 	<p>P.G-Course-1- Principles of Psychology</p> <ol style="list-style-type: none"> 1. Psychology can help us try to understand unusual behavior it also helps to understand far more common things that we all do. 2. Students can understand the concepts of where psychology originated and how it developed such as Definition, Nature, Scope and Goals of Psychology, Fields of Psychology, Methods of Psychology, Historical Development, Schools of Psychology, Biological Basis of Behavior and role of Heredity and Environment on Behavior. 3. The students can understand the affective processes of an individual, which are the vital part of our Personality. Affection refers to likes, dislikes, pleasant and unpleasant state of mind, moods and emotions. Understanding our affective process enables us to manage our interpersonal relationships effectively. 4. The Students understand the cognitive elements of human mind. It thrusts on areas of learning and Discusses the social and cognitive theories of learning, emphasizes on memory process and factors that affect forgetting. 5. Emphasises on understanding the concepts of two important aspects which are thinking and intelligence.

among students.
5. To cultivate in students a spirit of research and to provide skills needed for conducting research studies,

P.G-Course-2- Social Psychology	<ol style="list-style-type: none">1. Understand the principles of Social Psychology as a study which attempts to explain how the thoughts, feelings and behavior of individual are influenced by actual, imagined or implied presence of others.2. Social perception is a process through which one comes to know and understand the persons around us. Social perception can be determined by the processes of attribution and Communication serves as an important cue towards Understanding and perceiving the behavioral tendencies of the person in the society.3. The Students will understand the concepts of social psychology such as Socialization, social perception, motivation, attitude, leadership, interpersonal relationships, helping behavior.4. The students will understand the concepts of pro-social behavior, interpersonal attractions. Leadership and its theories and the environmental influences on
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P.G-Course-3- Psychopathology	<ol style="list-style-type: none">1. The students will understand the concepts of Definition, nature and scope of Psychopathology, Popular views and misconceptions of abnormal behavior, Criteria of abnormality and Models of Abnormal behavior and Historical perspectives of abnormal behavior.2. The students will learn about the various causes of different types of abnormal behaviors, Stress, Coping strategies. Anxiety Disorders, Somatoform Disorders and Dissociative Disorders.3. The students will understand about the Pervasive Developmental disorders, Cardiovascular disorder, Hyper tension, Asthma, Therapies, Eating Disorders and Sleeping Disorder, Ageing and Psychological disorders and Development disorders in adolescent and childhood.4. The students will understand about the mental disorders of Schizophrenia, Substance related Disorders, Personality Disorders, Sexual Disorders and Gender Identity Disorders.5. The therapies according to the theories of psychology and their effectiveness was studied by the students and Treating abnormal behavior is a complex task where the service provider has to keep in mind, the various factors and current position of the client, and the possible outcomes and the consequences of treatment. Employing a suitable therapy for the client is and providing treatment involves moral, ethical and legal aspects.6. The students will get the knowledge about the Biological, Behavior Therapies and studies about the Society's Response to Maladaptive Behavior-Levels of Prevention and Challenges of Preventions.
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<p>P.G-Course-4- Life Span Development</p>	<p>1.The students will understand the Principles governing growth and development and various stages of human life span. Characteristics and developmental tasks of each stage, Prenatal development and hazards, Factors influencing prenatal development and Birth process and infancy.</p> <p>2. The students will learn about the physical, social, emotional and moral development of child from two weeks to six years of age, language development, role of parents in development, factors of social development and socialization in babyhood.</p> <p>3. The students will learn about the physical and psychological problems faced by adolescents and their adjustments to lead a happy life. Physical changes and its psychological effects, Intellectual and Moral Development, Social Development in Adolescence, Personality Development and Adjustment problems during Puberty and Adolescence.</p> <p>4. The students will understand about the adjustment problems of early adulthood, college experiences and career development, adjustment to physical functioning and occupational stress by the middle aged, adjustment problems of the middle aged in marital and social relationships.</p> <p>5. The students will learn about the Preparation for old age, Physical and mental health, Work and retirement wooden head and remarriage and Social issues related to aging</p>
<p>P.G-Course -5- Statistics and Experimental Psychology Practical's</p>	<p>1. The students have an understanding of the basic statistical techniques used in the behavioral sciences.</p> <p>2. Explain the differences among various statistical techniques and apply an appropriate statistical technique for a given set of variables and research questions.</p> <p>3. summarize numerical data by computing appropriate statistics and interpret the findings to test the hypotheses formulated at the beginning of the research.</p> <p>4. conduct the experiments in laboratory situation by employing all the necessary experimental control techniques, record, analyse and interpret the data</p>

P.G-Course-6 - Personality	<ol style="list-style-type: none">1. Student will Characterize the various concepts of personality2. Describes different theoretical basis of personality and persons behaviour3. Learner explains the socialization process which takes place from eighteen months of age and develops the mechanism of inhibition and acquisition of the behaviours which are undesirable and desirable respectively by the society respectively.4. Understanding of an individual's personality will help the learners to describe, explain, predict and control an individual's behaviour.
P.G-Course-7 –Counselling Psychology	<ol style="list-style-type: none">1. Students will be able to define the Counseling Psychology deals with all those mechanisms that are required to deal with the myriad range of problems that people face in the day to day world.2. To determining Counseling psychology focuses on providing therapeutic treatments to clients who experience a wide range of symptoms.3. After aware of this course students considered and applied as one large specialty area in psychology, the study facilitates personal and interpersonal functioning across the life span with a focus on emotional, social, vocational, education, health-related, developmental and organizational concerns.

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<p>P.G-Course-8 Organizational Behaviour</p>	<p>1. Able to explain the knowledge of the organizational behavior (OB) is the study of the way people interact within organizations. Normally the purpose of this study is to create more efficient business to the management of workers. OB theories are useful for human resource purposes to maximize the output from individual group members.</p> <p>2. Able to categorized the division of labour refers to how the work is divided among the employees and coordination refers to how all the various activities performed by the individuals are integrated to accomplish the goals of the organization.</p> <p>3. Able to apply However, it can be partially understood in terms of the framework of psychology and other disciplines. There is no idealistic solution to organizational problems. All that can be done is to increase our understanding and skills to those human relations at work can be enhanced.</p>
<p>P.G-Course-9 Research Methodology</p>	<p>1. The study of research methodology gives the student the necessary training in gathering material and arranging them, participation in the field work when required, and also training in techniques for the collection of data appropriate to particular problems, in the use of statistics, questionnaires and controlled experimentation and in recording evidence, sorting it out and interpreting it.</p> <p>2. Gives the detailed ideas about research methodology description of a number of techniques used for data collection method in psychological research-questionnaires and deals with the techniques of multivariate analysis techniques introduces techniques of qualitative analysis such as grounded theory, discourse analysis and thematic analysis also will learn the most important aspect of conducting scientific research i.e. ethics in research.</p>

				P.G-Course-10: Psychometry & Psychological Testing Practicals	1.Emphasizes on understanding the characteristics of a psychological test like objectivity, standardisation, reliability, validity, norms and practicability. This unit also presents the classification of psychological tests into tests of maximal performance, behavioral observation tests, self-report tests, individual and group tests, verbal and nonverbal tests, speed and power tests and projective tests. It also throws light on many assumptions that must be made when using psychological tests.
26	P.G – Public Administration	To equip the learner with the required knowledge of administrative science and government in action and the contemporary issues in public affairs management;	Understand the interface of theory and practice of Public Administration; Acquire analytical skills and program solving abilities; and Develop interest and competencies to pursue further academic and professional studies in Public Administration.	P.G-Course-1- State,Society and Administration	understand the interface of theory and practice of Public Administration; acquire analytical skills and program solving abilities; and develop interest and competencies to pursue further academic and professional studies in Public Administration.
				P.G-Course-2- Administrative theory	understand the interface of theory and practice of Public Administration; acquire analytical skills and program solving abilities; and develop interest and competencies to pursue further academic and professional studies in Public Administration.
				PG Courses 3 Public Policy	understand the interface of theory and practice of Public Administration; acquire analytical skills and program solving abilities; and develop interest and competencies to pursue further academic and professional studies in Public Administration.
				P.G-Course-4- Public Systems Management	understand the interface of theory and practice of Public Administration; acquire analytical skills and program solving abilities; and develop interest and competencies to pursue further academic and professional studies in Public Administration.

P.G-Course 5 Human Resource Management	<p>understand the interface of theory and practice of Public Administration;</p> <p>acquire analytical skills and program solving abilities; and</p> <p>develop interest and competencies to pursue further academic and professional studies in Public Administration.</p>
P.G-Course-6 Indian Administration	<p>understand the interface of theory and practice of Public Administration;</p> <p>acquire analytical skills and program solving abilities; and</p> <p>develop interest and competencies to pursue further academic and professional studies in Public Administration.</p>
P.G-Course-7 – Rural Governance	<p>understand the interface of theory and practice of Public Administration;</p> <p>acquire analytical skills and program solving abilities; and</p> <p>develop interest and competencies to pursue further academic and professional studies in Public Administration.</p>
P.G-Course-8 Urban Governance	<p>understand the interface of theory and practice of Public Administration;</p> <p>acquire analytical skills and program solving abilities; and</p> <p>develop interest and competencies to pursue further academic and professional studies in Public Administration.</p>
P.G-Course-9 e-Governance	<p>understand the interface of theory and practice of Public Administration;</p> <p>acquire analytical skills and program solving abilities; and</p> <p>develop interest and competencies to pursue further academic and professional studies in Public Administration.</p>

				P.G-Course-10 Research Methods	<p>understand the interface of theory and practice of Public Administration;</p> <p>acquire analytical skills and program solving abilities; and</p> <p>develop interest and competencies to pursue further academic and professional studies in Public Administration.</p>
27	P.G – History	<p>To understand the evolution, growth and progress of a society in particular and a country in general</p> <p>To develop scientific temper, democratic and secular outlook</p> <p>To encourage field study with a view to create social awareness, appreciation and preservation of historical monuments and heritage sites</p> <p>To inculcate knowledge and skill to compete in all types of competitive examinations</p> <p>To ensure holistic development to match global competency</p>	<p>Know the evolution, growth and progress of a society in particular and a country in general</p> <p>Acquire scientific temper, democratic and secular outlook</p> <p>Develop curiosity in field study with a view to create social awareness, appreciation and preservation of historical monuments and heritage sites.</p> <p>Get knowledge and skill to compete in all types of competitive examinations</p> <p>Analyze holistic development to match global competency and holistic development to match global competency.</p>	P.G-Course-1- Ancient Civilizations	<p>Capacity to explain how and why important events happen</p> <ul style="list-style-type: none"> • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
				P.G-Course-2- Historical Methods	<p>Capacity to explain how and why important events happen</p> <ul style="list-style-type: none"> • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
				PG Course 3 Modern Revolutions	<p>Capacity to explain how and why important events happen</p> <ul style="list-style-type: none"> • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research

P.G-Course-4- Indian National Movement	<p>Capacity to explain how and why important events happen</p> <ul style="list-style-type: none"> • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
P.G-Course 5 History of Andhras up to 1687	<p>Capacity to explain how and why important events happen</p> <ul style="list-style-type: none"> • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
P.G-Course-6 Indian History and Culture from Earliest Times to 712	<p>Capacity to explain how and why important events happen</p> <ul style="list-style-type: none"> • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
P.G-Course-7 – Indian History and Culture from 712 to 1707	<p>Capacity to explain how and why important events happen</p> <ul style="list-style-type: none"> • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research

				<p>P.G-Course-8 Social History of Modern India</p> <ul style="list-style-type: none"> Capacity to explain how and why important events happen • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
				<p>P.G-Course-9 History of Modern Andhra</p> <ul style="list-style-type: none"> Capacity to explain how and why important events happen • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
				<p>P.G-Course-10 Contemporary History of India</p> <ul style="list-style-type: none"> Capacity to explain how and why important events happen • Understanding of the historical method of study • A clear understanding of evidence collected from historical sources • Critical understanding of developments in historiography • Knowledge of the history of the India and Modern World • Informed familiarity with multiple cultures and diversity • Awareness of current historical debates • Understand the skills that historians use in research
28	M.A(Journalism and Mass Communication) From	This programme will lay strong foundation for the students in theoretical and practical aspects of mass communication and journalism related fields. After completion of the programme, students will be able to apply this knowledge in research and practical areas of the chosen field	<p>Learners will demonstrate strong theoretical and practical understanding of various aspects of mass communication and journalism. They will be able to apply this knowledge in research and profession. The learners will acquire practical skills in reporting, editing, creating online content, producing television programmes. They will be able to critically analyse issues in media fields and find creative solutions practical problems. Learners will become ethically responsible media</p>	<p>P.G-Course-1 Basics of Communication and Journalism</p> <p>Understand and create different models of communication through observation of communication processes in different settings and contexts. Exhibit a sound understanding and knowledge of Journalism and Mass Communication. Display the competence to explore career opportunities as per demands and requirements of Media Industry. Think critically, creatively, and demonstrate curiosity to discover new horizons in Journalism and Mass Communication.</p> <p>P.G-Course-2 Communication Theories</p> <p>Analyze the various theories of media under different political systems of the world. Demonstrate an understanding of the why and how of developing theories and models of Mass Communication</p>

areas of the chosen field.

Learners will become critically responsible media professionals in the areas of journalism, public relations, advertising. They will contribute to the sustainable development of society. Demonstrate skills in designing and implementing research projects.

P.G-Course-3 History of Media	Understand the importance and development of language and language press in India. Analyse the role of press in the freedom movement of India. Familiar with the development of vernacular press and different media.
P.G-Course-4 Writing and Reporting for Media	Develop and hone their reporting skills on various news beats. Understand the meaning of news and prepare eye-catching headlines. Develop practical knowledge on kinds of reporting
P.G-Course-5 Broadcast Media	Understand the basics of sound recording and its techniques. Learn the different radio and TV program production skills and requirements.
P.G-Course-6 Media Laws and Ethics	Describing the main features of the Indian Constitution and the fundamental rights, power and position of the President of India, Prime Minister, Chief Minister, Governor, Parliament, Supreme Court and High Court, Local governments. Analyzing national economic policy with the new trends, industrial policy with the new trends, finance commission and its functions, objectives of the five year plans, objectives of the economic policy and its impact on society. Understanding different press laws and acts
P.G-Course-7 Editing for Media	Students get a good idea about the various aspects of editing which are crucial requirements in the job market. Knowledge of page designing helps them to have a comprehensive knowledge on the topic.
P.G-Course-8 Broadcast Journalism Practices	Record the sound for various radio programs by using audio recording equipments. Prepare a TV/radio program by demonstrating the radio writing and recording skills.
P.G-Course-9 ICT and New Media	Understand the workings of various softwares and applications in media. Demonstrate the knowledge of softwares in making effective presentations. Understand the working of internet and different Social Media platforms.
P.G-Course-10 Media Management	Examining newspaper as a business enterprise and its public service role with reference to the Indian experience. Various factors associated with ownership of newspapers, the different types of ownership and source of revenue of a newspaper. Understanding circulation of newspapers and the various factors involved with circulation of newspapers, newspaper's policy, role of the Circulation department, circulation manager, Audit Bureau of Circulation (ABC), advertisement department of a newspaper, role of the advertisement manager, different types of advertisement in newspapers and newspaper as a medium of advertisement

P.G-Course-11 Advertising	Design an advertising campaign. Identify various styles and advertising production techniques used for various mediums. Gain familiarity with the concept of targeting, positioning and market segmenting.
P.G-Course-12 Development Communication	Demonstrate knowledge about the concept of development and development communication. Apply strategies of development communication to real life development issues in various societies. Design development campaigns using different media platforms. Demonstrate an understanding of the political, economic and cultural dimensions of development communication
P.G-Course-13 Global Communication	Clearly explain the relationship between Politics and Media changing trends in global information flow and concept of the network society. Describe the media imperialism and media driven global culture. Understand the global crisis and role of media, post-world wars, terrorism events and conflict reporting. Present the knowledge related to global media initiatives.
P.G-Course-14 Communication Research (Quantitative)	Gain conceptual knowledge of research, elements of research and different types of research with their importance. Clearly identify and formulate the research problems and research objectives.
P.G-Course-15 Digital Journalism	Gain conceptual knowledge Web Journalism and its different aspects. Write good web articles and maintain their blogs online. Distinguish Web Media from other mediums of Journalism
P.G-Course-16 Public Relations	Plan, design and implement PR tools effectively. Write press releases, organize press conferences and create PR campaigns.
P.G-Course-17 Rural Communication	Learner would know the rural India and its problems he also will understands the communication gap. Know the functioning of media in development coverage.
P.G-Course-18 Communication Research (Qualitative)	Understand and apply different research designs and methods to a specific research problem. Demonstrate the report writing structure and prepare a good research report.
P.G-Course-19 Media Literacy	Skilled in the analyzing the process of Media Literacy and its benefits. Differentiate the conventional, alternate and mainstream media. Analyze and face the different kinds of Mass media. Empower students by imparting knowledge of entrepreneurial skills. Enhance leadership skills by becoming media literate.

				P.G-Course-20 Project Report and Viva-voce	Perform the all the basic and advance skills related to anyone filed from Print, Electronic Media (Radio, Television, Film), New Media, Photography, Advertising and Public Relations and Event Management. Specialize in anyone field chosen by them. Demonstrate all the requirements of the selected field.
29	P.G. M.Sc., Zoology	To generate the human resource in the form of learned students and researchers in the subject of zoology. To inculcate knowledge and make successful career in zoology. To make aware the students about local, National and Global faunal biodiversity, the dynamics in biodiversity and its reasons, to conserve it for sustainable utilization. To conduct basic and applied research which has societal and environmental values. To introduce the students about use of animal resource for entrepreneurship development and to generate employment. To equip the students with laboratory skills as well as field based studies to become a	Understand the relationships among animals, plants and microbes. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, molecular Biology, Immunology, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology, Sericulture, Biochemistry, Fish biology, Animal biotechnology and research methodology. Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine. Gains knowledge about research methodologies, effective communication and skills of problem solving methods. Contributes the knowledge for Nation building	Animal Diversity and Ecology	Knows theories and concepts of taxonomy, methodology in systematic. Understands diversity of organ systems (coelome, circulatory, nervous, excretory) in invertebrates. Understands diversity of organs systems (integument, heart and circulatory, respiratory, nervous, sensory organs) in vertebrates. Knows ecology and animal diversity. Knows sanctuaries and national parts, extinction of animals, conservation of biodiversity.
				Cell and Molecular Biology	Knows structural and functional aspects of basic unit of life i.e. cell concepts. Understands methods in cell biology, functional aspects of cell organells. Know the cell division, cell communication and signaling. Understands DNA and its replication, transcription, genetic code and protein synthesis. Understands gene regulation, gene transfer methods in prokaryotes. Knows about cancer.
				Animal Physiology & Physiological Chemistry	Seeks to understand the mechanisms that work to keep the human body alive and functioning Knows physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of humans, their organs, and the cells of which they are composed Knows the interactions and interdependence of physiological and biochemical processes

successful entrepreneur.

Human Cytogenetics and Developmental Biology	<p>Introduces the new developments in genetics and its implications in human welfare.</p> <p>Exposes the learners to the basics of genetics, genetic diseases. Gains knowledge about gametogenesis, cleavage mechanisms, gastrulation and role of hormones in metamorphosis and regeneration.</p> <p>Learns the development of animal from egg to adult and also learn the processes of blastula, gastrulation.</p> <p>Learns fundamental molecular and cellular mechanisms contribute during development process.</p> <p>Learns how these different mechanisms integrate at the level of whole tissues, organs and organisms, and how they are functionally adapted in distinct developmental contexts.</p>
Immunology	<p>Knows about structures and function of immune cells, immunoglobulins, antigens and their interactions with antibodies.</p> <p>Knows about complement system, MHC molecules, cytokines, hyper sensitivity reactions and cellular mode of immunity development and immune response.</p> <p>Understands the immune diffusion technique and ELISA.</p> <p>Provides basics knowledge about immune system and allows the student to create insight as how to improve their immune system and good health.</p> <p>Knows types of immunity, antigens-antibodies and their properties.</p> <p>Understands types of hypersensitivity reactions and auto immune diseases.</p> <p>Acquires ability to understand concepts of tumor immunology and transplantation immunology.</p>

				<p>Animal Biotechnology</p> <p>Gets insight into various cell/tissues culture techniques. Understands in vitro culturing of organisms and production of transgenic animals. Understands cloning of mammals, large scale culture and production from recombinant microorganisms. Gains skills in medical, environmental biotechnology, biopesticides, Biotechnology of aquaculture and use of animals as bioreactors. The insight allows students to take into consideration about ethical issues involved in production transgenic animals and BT products.</p>
				<p>Toxicology of Insecticides</p> <p>Knows formulations and classification of insecticides. Knows evaluation of insecticide toxicity. Understands effect of insecticides on nervous system. Understands botanicals, conventional, newer insecticides. Knows photochemistry of pesticides, insecticide resistance, pesticide residues.</p>
				<p>Applied Entomology</p> <p>Knows classification and structure of insects, behavior. Know the pests of field crops, stored grains, horticultural crops. Understand about integrated pest management, non insect pests. Knows about useful insects biology, nature of produce, uses. Knows about livestock, urban, medical, forensic and aquatic entomology.</p>
				<p>Applied Aquaculture</p> <p>Studies fish breeding and genetics, seed production technology. Studies culture of carp prawn, pearls, natural foods. Understands about freshwater fish farm and its management, water and soil management, fish feed and feeding strategies. Understands about fish fin diseases, pathology, control and prevention. Understands PCR technology in disease control, electrophoresis.</p>

Course-3-Soild State Physics.	<p>1. Able to differentiate between crystalline and non crystalline solids. They describe the properties of glasses. They explain the principles of x-ray diffraction. Students will be in a position to record the x-ray electron diffraction photograph and interpret the crystal structure.</p> <p>2. They study the difference between a perfect or ideal crystal and real crystal. They also understand about the defect-controlled properties of solids, diffusion and ionic conductivity. They will explain the properties of metals by using free theory of metals. They will learn Sommerfeld quantum theory.</p> <p>3. They will explain the propagation of elastic waves also the modes of vibration and frequency dispersion relations. They discuss the lattice heat and learn Einstein and Debye theories of specific heats.</p> <p>4. Macroscopic and microscopic understanding of the dielectric properties are learned. Various polarization mechanisms are also explained. Measurement of dielectric constant, losses have been studied. They learn how to derive Clausius-Mossotti and Lorentz relations. They will also explain various theories of ferroelectricity and various applications of ferroelectric materials.</p>
Course-4- Semiconductor Devices-Analog and Digital Electronics.	<p>1. They learn about the characteristics of Diodes and transistors. Understand about the rectifiers and their use in electronic circuits. They come to know about the use of amplifiers, oscillators in electronic devices.</p> <p>2. Able to distinguish between inverting and non-inverting Op amps, Open loop and closed loop frequency response. They learn how to implement mathematical operations.</p> <p>Students will be able to construct the logic gates by using De Morgan's theorem. They learn the use of Flipflops as memory devices and how multiplexer and demultiplexer will be useful in digital electronics.</p> <p>4. They will come to know how to use a binary ladder to accomplish D/A conversion and determine the accuracy and resolution of D/A converters. Also able to explain the operation of counter type A/D converter. Different techniques will be</p>

<p>P.G-Course-5 – Nuclear Physics and Analytical Techniques</p>	<p>1.Students will be able to deduce the relation between range and energies of alpha. They will learn how the radiation in general and the nuclear radiation in particular interact with the matter.They will also study about the basic princiole and design n working of radiation detectors.</p> <p>2.They will be able to narrate the fundamental properties of the nucleus. They will distinguish the difference between the tensor forces, exchange forces etc..They learn nuclea paricle. They will analyse the allowed and forbidden transistion in Beta decay and also they know nuclear models and discuss the role of shell model.</p> <p>3.They will describe nuclear reactins and solve problems related to threshold energy. They explain basic concepts related to phase contrast microscope and electron microscope.</p> <p>4.They study the basic principles of thermogravimetric analysis and differential scanning calorimetric methods.They study the basic conditions to be satisfied to observe Mossbauer effect .They describe how the phase transitions are taking place. They discuss the fundamentals of nuclear magnetism and discuss different types of NMR studies. Describe the chemical shift and spin-spin coupling. They know about ESR phenomenon electron-electron coupling.</p>
<p>P.G-Course-6 Electromagnetic Theory and Spectroscopy</p>	<p>1Describe electrostatic potential and explain the phenomenon of polarization. Derive electromagnetic wave equation using Maxwell's equations. They are able to estimate power radiated by a charge.</p> <p>2.They will be able to understand the one ele tron system like hydrozen atoms and also hyperfine strucutes.They get the holistic understanding of effect of magnetic fieldson the spectrum of an atom.</p> <p>Here they will learn Transitions between different rotational levelsgive rise to pure rotational spectrain the microwave region. They will know the vibrational-rotational spectra of diatomic molecules.They will explain about the intensity distribution of spectral lines</p> <p>4.They study the IR absorption spectroscopy and most powerful analytical technique which offers possibility of chemical identification. They will know that Raman spectroscopy is useful for the investigation of biological systems.</p>

				<p>P.G-Course-7 Memory Devices and Microprocessors.</p> <p>1.Able to explain the concept of logic families and their types and can undertand the technology used in the design of logic families. They will also able to explain various parameters of digital logic families like input and output logic levels,Noise immunity, noise margins.</p> <p>2. understand the evolution of computer,single chip microprocessor, thie applications and architecture., inturrupts,, timing diagrams.</p> <p>3. Students will understand of methods to write programmes in assembly language for 8085 microprocessor.. They will learn the method ofs of writing programmes usingloops. They will be able to discuss the characteristics of programmable Interval Timer 8253,its pin diagram.</p> <p>4. They will come to know the organization of different blocks of a general microcomputwr study the register stucuture, able to write simple assembly language programme of 8086. They will know the internal blocks of advanced microprocessors,Intel 80286,80386,80486.. They will be familiar with the architecture</p>
				<p>P.G-Course-8 Microwave Devices and Communication Systems.</p> <p>1.They know the cocept of wave gides which are useda t microwave frequencies. They learn TM and TE modes in rectangular and circular waveguide.</p> <p>2.They know working of two-cavity klystron.They will understand magnetron. They will be knowing the principle of operation of travelling wave tubeand amplification process.</p> <p>3. They will explain the process of modulation and demodulation and how AM and FM will be developed. They will explain the need for using antennas different microwave bands, various types of VHF antennas and their characteristics and parameters. They will explain the range of Radar, how the CW and MTI Radar works and also know different types of tracking methods.</p>
31	M.Sc(Mathematics)	To produce highly qualified, motivated man power with understanding of detailed knowledge on Mathematical Sciences. 2. To produce trained man power for under	<p>1. Create a hypothesis and appreciate how it relates to broader theories.</p> <p>2. Evaluate hypotheses, theories, methods and evidence within their proper contexts.</p> <p>3. Solve complex problems by critical understanding, analysis and synthesis.</p> <p>4. Demonstrate engagement with current research</p>	<p>Algebra</p> <p>Knows theories and concepts Normal sub groups and Homomorphism's</p> <p>Understands an solve the sylow theorems.</p> <p>Understands the Integral domains and fields , polynomial rings.</p> <p>Knows ecology and animal diversity.</p> <p>Knows the solvability by radicals..</p>

taking research and teaching in Mathematics and Applied Mathematics.

3. To acquire both a conceptual and operational understanding of the mathematical areas.

4. To provide students with the optimal balance between a defined sequence of study and flexible course options.

5. To study essential topics in Calculus, Linear Algebra and Differential Equations that can be applied directly to build applications in Coding and Cryptology, Mathematical Physics, Mathematical Biology, Bioinformatics and Finance.

and developments in the subject. 5. Critically interpret data, write reports and apply the basics of rules of evidence.

6. Select, interpret and critically evaluate information from a range of sources that include books, scientific reports, journals, case studies and the internet.

7. Develop proficiency in the analysis of complex physical problems and the use of mathematical or other appropriate techniques to solve them.

8. Provide a systematic understanding of the concepts and theories of mathematics and their application in the real world – to an advanced level, and enhance career prospects in a huge array of fields.

9. Criticize mathematical arguments developed by themselves and others

10. Communicate effectively by oral, written, computing and graphical means.

11. Recognize the need to engage in life long learning through continuing education and research

Real Analysis	Knows structural methods of metris spaces like open and closed. Understands methods remann stieltjes integral Know the vector valued functions and monotonic functions Understands and solve the integrals. Understands the beta gamma function
DMS	Seeks to understand the lattices and some special types of lattices. Knows the statement of connectives and graph theory. Knows the interactions in the graph theory like trees, travarsability etc./ Solve the generating functions.
M.Sc., Mathematics Course-4	Introduces the nth order linear homogenous equations with constant coefficients Exposes the learners to the basics of linear cautions with variable coefficients. To sole and learn legender eauations, chebushev equation, Bessel equation. Learns the development of stability and partial differential equations Student will focus and solve the applications of partially differential equations.
Topology	Knows about structures of lattices and index set.. Knows about Open bases and sub bases. Understands the Ascolis theorem's Provides basics knowledge and solve the the theorem Tietze extension theorem. Know and learn the connected topological spaces..
Functional Analysis	Gets insight into various inequalities and. quotient spaces. Understands in bannch spaces. Understands mapping theorems. How we can solve Gram Schmidt orthonormalization process. We will focus on finite dimensional spectral theory.

Complex Analysis	<p>Knows formulations and classification of complex analysis. Knows evaluation of Cauchy theorems. Understands the concepts of power series Understands singularities.</p> <p>Evaluation of integrals and solve and rectify it.</p>
COMMUTATIVE ALGEBRA	<p>Knows classification of sub rings and homomorphism's. Know the Direct sums and Direct products. Understand about projective and injective modules.. Knows about chain conditions Knows about like topologies and completions..</p>
Methods of applied mathematics	<p>Studies on eulers equation and lag ranges Iq multiplier method. How to learn and solve the Fourier series.. Understands the Z-Transforms Student will solve tensor calculus applications.. Student will perturbation techniques.</p>
MEASURE AND INTEGRATION	<p>Studies on Algebra sets and Borel sets.s How to learn and solve the measurable functions.. Understands the bounded variation.s Student will solve le vague and non negative functions. Student will solve measure and topology.</p>
Numerical Methods	<p>They understood and solve interpolation of different formulas They will learn system of linear equations. Student will focus on predictor methods. They will solve parabolic and hyperbolic equations Overall, they will solve all the methods and form the tables.</p>
Operation Research	<p>They understood preliminaries of Operation Research. They will learn How to solve linear programming problems.. Student will focus on CPM AND PERT. They will solve SIMPLEX METHOD AND QUADRATIC PROGRAMMING They will learn Game theory and solve the problems.</p>

				Operator Theory	They understood and solve Banach spaces They will learn Compact Operators. Student will focus on Integral Equations.. They will solve Banach Stone theorem Overall, they will solve all the methods and Banach algebras
32	P.G – M.Sc. Environmental Science	<p>1. To develop Professional and Research capabilities in major areas of environment.</p> <p>2. To develop Mid-Career professionals in various fields in maintaining environmental integrity in relation to human development.</p> <p>3. To produce graduates grounded in their areas of specialization yet more holistic in their approach to environmental issues.</p> <p>4. To ignite the scientific temper towards research</p>	<p>1. The students acquire the knowledge in the Environmental Science and issues of theory and practical.</p> <p>2. Students may choose their career as teachers in the Environmental science for UG and PG.</p> <p>3. Safety officer and Environmental Researcher in the industry, private and public sector.</p> <p>Students who are already working for the up gradation of skill and knowledge.</p>	<p>P.G-Course-1-Computer Programming</p>	<p>1. Use the fundamentals of C programming in trivial problem solving.</p> <p>2. Enhance skill on problem solving by constructing algorithms.</p> <p>3. Identify solution to a problem and apply control structures and user defined functions for solving the problem</p> <p>4. Demonstrate the use of Strings and string handling functions</p> <p>5. Apply skill of identifying appropriate programming constructs for problem solving</p> <p>6. Gain ability to apply knowledge of Computer Science to the real-Environmental issues.</p> <p>7. Get prepared for placement by developing personality and soft skills and to be applied the Remote sensing & GIS data.</p>
				P.G-Course-2- Ecology and Natural Resource Management	<p>1. Understand ecological principles underpinning management of resources, populations, communities, and ecosystems.</p> <p>2. Understand the policies governing resources and the environment and identify social dimensions (stakeholders, interests, trade-offs, synergies, ethical principles) to consider in the development of management plans.</p> <p>3. Communicate effectively with colleagues, stakeholders, and the public about environmental and resource management issues.</p> <p>4. Recognize how diverse groups understand the environment, experience positive and negative environmental impacts, and perceive just and equitable solutions</p>

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P.G-Course-3-Environmental Remote Sensing and GIS	<p>1. Understand the principles of aerial and satellite remote sensing, Able to comprehend the energy interactions with earth surface features, spectral properties of water bodies</p> <p>2. Understand the basic concept of GIS and its applications, know different types of data representation in GIS</p> <p>3. Apply knowledge of GIS software and able to work with GIS software in various application fields and particularly in Environmental Sciences.</p>
P.G-Course-4-Environmental Health and Natural Disasters	<p>1. Interpret in appropriate biological, chemical and physical terms the potential consequences of exposure to hazardous environmental/occupational agents.</p> <p>2. Diagnose the cause of environmental pollution and design appropriate control measures to improve the health outcomes.</p> <p>3. Create a job safety analysis by applying the concepts of workplace injury prevention, risk management and environmental laws.</p> <p>4. Developing an arbitrary plan of action to improve the waste disposal methods in urban and rural context</p> <p>5. Aware students about problems of environmental pollution, its impact on human and ecosystem and control measures.</p>
P.G-Course	

<p>P.G-Course-5 - Air pollution and Control Technologies</p>	<ol style="list-style-type: none"> 1. Student will Characterize the elements of air pollution 2. Describe current air pollution issues at all scales 3. Quantify environmental engineering parameters with appropriate metrics and units, and be able to convert between units of measurement. 4. Solve simple problems related to dispersion and air quality modeling 5. Select methods for control, and prevention of air pollution to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacture and sustainability 6. Analyze various unit operations and unit processes used in air treatment 7. Evaluate process design criteria for different air treatment technologies and perform basic calculations
<p>P.G-Course-6 - Environmental Impact Assessment and Hazardous Waste Management</p>	<ol style="list-style-type: none"> 1. Students will be able to identify the sources of solid and hazardous wastes and manage them. 2. To determining and managing, identifying, describing, measuring, predicting, interpreting, integrating, communicating, involving and controlling the factors. 3. Waste materials should be disposed off site as soon as possible and volumes generated during the site formation works should be minimized, through recycling and reuse. Solid materials which cannot be recycled or reused will need to be disposed of to landfill, public dumps, or the chemical waste treatment plant

				<p>P.G-Course-8 Water and Waste Water Treatment Technologies</p> <ol style="list-style-type: none"> 1. Knowledge of the impacts of water and wastewater treatment. - Good knowledge of the local, national and international laws, regulations and guidelines that drive the selection of different water and wastewater treatment processes. 2. Able to use software and tools to assess the health and environmental impacts of water and wastewater systems 3. Able to apply key theories and principles in the design and selection of appropriate water and wastewater treatment technologies for a given location. 4. Able to design treatment systems for flood water management in the built environment and along roads.
				<p>P.G-Course-9 Global Environmental Issues</p> <ol style="list-style-type: none"> 1. Critically assess the development of the environmental concern and idea of sustainable development 2. Provide a detailed objective summary of key global environmental issues; 3. Show an understanding of the science behind some global environmental issues; 4. Critically analyze the drivers behind a range of global environmental issues; 5. Identify and assess potential interventions to address environmental problems; 6. Write a report in a scientific format using primary data.
				<p>P.G-Course-10</p>
33	M.Sc(Botany)	To acquire basic knowledge and skills in certain applied branches to enable them for self employment. • To maintain a high level of scientific excellence in botanical research with specific	Develop a conceptual understanding of principles and importance of Botany Learn about practical technique in lab, Maintain a high level of scientific excellence in botanical research with specific emphasis on the role of plants. Best problem-solving skills in students would encourage them to carry out innovative research projects thereby making them to use knowledge	<p>Biology and Diversity of Viruses, Bacteria and Fungi</p> <p>Will know the characters of microbes Will recognize algae and fungi in their daily life Explain general characters of algae, fungi Ability to draw diagrams <u>Know about microbes diseases</u></p> <p>Biology and Diversity of Algae, Bryophyta and Pteridophyta.</p> <p>Can Explain plant evolution Describe the fossil plants and know the reasons for extinction Ability compare the archegoniates with algae</p>

emphasis on the role of plants in the structure and functioning of terrestrial and marine communities and ecosystems

- to help in sustainable options for the safeguard of the environment by exploring the intricacies of life forms at the cellular, molecular and nano level,

creation in depth.
 Enable the students to be resourceful in identifying the plants
 Prepare the students for many competitive exams like , UPSC NET ,SET, GATE.

Gymnosperms, Taxonomy of Angiosperms and Anatomy	<p>Explain organisation of plant tissue Know about internal parts function</p> <p>Can arrange the plants in systematic manner based on their characters.</p> <p>To be a Taxonomist</p>
Biochemistry and Plant Physiology	<p>Explain about enzymes, proteins, A.A, fats Explain soil -plant-atmosphere-continuum process</p> <p>Know the difference between photosynthesis and respiration</p> <p>Understand about physiological aspects of phytohormones</p> <p>Explain about concept, biotic ,abiotic ,foodchain ,foodweb and biodiversity and conservation</p>
Cell Biology , Genetics, Biostatistics and Ecology	<p>Students will demonstrate knowledge and understanding of evolutionary biology.</p> <p>Explain about concept, biotic ,abiotic ,foodchain ,foodweb and biodiversity and conservation</p> <p>Solve the biostatistics problems</p>
Medicinal Plants and Embryology of Angiosperms	<p>Can explain development of male and female gametangium, fertilisation process and development of embryo, endosperm</p> <p>Can utilize the medicinal plants to related diseases.</p> <p>Follow traditional medicinal system</p>
Applied Mycology and Plant Pathology	<p>Identify various diseases and know the causes Control the diseases by physical and chemical methods</p> <p>Understand recent trends in plant pathology</p> <p>Describe the IPM</p>
Plant Molecular Biology and Biotechnology	<p>Explain totipotency steps</p> <p>Describe cloning vectors</p> <p>Explain about gene transfer methods</p> <p>Know about transgenic plants pros and cons</p>

34	M.Sc(Chemistry)	<p>To produce skilled chemists to serve in the area of synthesis, analytical and documentation required by the industry.</p> <p>To provide advanced knowledge and practical experience in chemistry</p> <p>To pursue the innovative and creative research in the field of synthetic organic chemistry, heterocyclic synthesis isolation of natural products from the natural resources, Inorganic, Physico-organic, medicinal, Bio-organic and Medicinal Chemistry.</p> <p>To train the students for conduct the processes</p>	<p>The University provides a system of learner centered self-paced learning by providing self learning material.</p> <p>The course material is prepared by the Academic experts in collaboration with industrial experts.</p> <p>The learners acquire the knowledge in the Chemistry theory and practical.</p> <p>Students start their career in the field of Chemistry as teachers in chemistry for UG and PG level, synthetic chemist, Analytic chemist, Patent filing officer, chemical data processing professional, chemical data management Professional and research chemist.</p> <p>Regarding to the knowledge domain, it is presumed that, the students who are already in the field of chemical science acquire enhanced practical skilled.</p> <p>Students will get opportunities in Chemical, Pharmaceutical industry, Research and development in Private and Government sector etc. by completing Programmes.</p>	Inorganic Chemistry	<p>After completion of this course Learner can able</p> <p>Predict the structural features of coordinate complexes using various theories.</p> <p>Design the synthesis and reactions of coordinate complexes, Examine the mechanism.</p> <p>Explore the catalytic activity of metal complexes.</p> <p>Apply the symmetry concepts to analyze the symmetry, point group, group theory of compounds to explain the structural features, chemical and physical properties of compounds.</p> <p>Evaluate the structures, properties of metal nitrosyles and metal carbonyls.</p> <p>Utilize the concepts of bioinorganic chemistry to analyze the biological activity of metals, metal complexes and metal – porpyrines.</p> <p>Examine the catalytic activity of metals and metal complexes.</p> <p>Propose and examine the mechanism of reactions driven by</p>
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associated with industrial production and quality assessment.

Organic Chemistry	<p>After completion of this course Learner can able to Identify stereochemistry of molecules, classify the stereo isomers as enantiomers, diastereomers and geometrical isomers.</p> <p>Assign R,S & D,L –Configurational nomenclature for Asymmetric molecules.</p> <p>Assign E,Z or cis,trans configurations to Geometrical isomers.</p> <p>Preparation, properties and separation of racemic mixtures.</p> <p>Examine the stereochemistry of axial, planar and helical chiral molecules.</p> <p>Examine the chemical and physical properties of Geometrical isomers.</p> <p>Predict the reactions mechanisms for the substitution, addition reactions.</p> <p>Predict the reaction mechanism of various reactions using different techniques.</p> <p>Examine the aromatic compounds and analyse its properties.</p> <p>Synthesize hetero cyclic compounds, examine properties and utilize its applications in the manufacturing of heterocyclic derivatives.</p> <p>Isolation, physical, chemical, biological peoperties, structure</p>
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Physical Chemistry	<p>After completion of this course Learner can able to Accurately predict chemical and physical properties of molecules and materials, which is useful to many fields of science and engineering. Predicting chemical properties using a first principles approach at the atomic scale is a theoretical and computational challenge by quantum chemistry principles.</p> <p>Upon completion of the course students will be able to: 1. Use thermodynamic terminology correctly. Explain fundamental thermodynamic properties. Derive and discuss the first and second laws of thermodynamics. Solve problems using the properties and relationships of thermodynamic fluids. Analyse basic thermodynamic cycles. Students must have understanding of thermodynamic fundamentals before studying their application in applied thermodynamics.</p> <p>Extrapolate the knowledge of electrolytic cell, electrochemical cell, electrode Potential and reference electrodes. Use of primary and secondary batteries in various fields such as automobiles, railways, medical devices, aircrafts and day to day life. Explain the characteristic factors of a metal and environment influencing the rate of Corrosion. Use innovative methods to improve the quality of soft water for Potable and industrial purpose at cheaper cost. Evaluate the quality and utility of suitable water for industrial as well as domestic applications. Use innovative methods to improve the quality of soft water for Potable and industrial purpose at cheaper cost. Demonstrate comprehensive knowledge of conventional fuel properties on engine performance. Understand the importance of cracking, knocking in IC engines and operations involved in petroleum refining.</p>
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<p>Mathematics, Biology, Spectroscopy & Computers</p>	<p>After completion of this course Learner can able to Mathematics concepts can be utilized by Life science graduate in the physical chemistry learning process.</p> <p>Biology part can be utilized by the Mathematics graduate in the Biochemistry aspects learning process.</p> <p>Spectral methods i.e., UV, IR, HNMR, Mass are used to study of known compounds and propose to structures for new Unknown compounds.</p> <p>Computers basics are utilised in the entire course to complete assignments, learning from OER resources, working on chemistry software like chem. Draw, computational chemistry etc..</p>
<p>Organic reaction mechanism, Pericyclic reactions, Photo Chemistry & Stereochemistry-2</p>	<p>After completion of this course Learner can able to Examine the molecular rearrangement reactions, predict the mechanism of various rearrangement reactions.</p> <p>Design the elimination reaction reactions, predict the mechanism and optimize the reaction condition.</p> <p>Design Pericyclic reactions, analyse stereochemistry and reaction conditions,</p> <p>Design photochemical reactions of various organic compounds.</p> <p>Examine the generation of conformational structure of acyclic and cyclic compound derivatives. Predicts the stabilities and energies associated with them.</p>
<p>Synthetic Organic Chemistry</p>	<p>After completion of this course Learner can able to Utilize various oxidation, reduction and organo metallic reagents are selective utilization in the reactions to get targeted product and with good yield in easily manageable conditions.</p> <p>Utilization of synthetic strategies in the designing of various reactions to get target molecules with great yield and purity.</p> <p>Utilize the asymmetric synthesis methods to synthesize various chiral molecules used various area in the field of chemical science.</p>

<p>Natural products, Enzymes, Biogenesis, Hetero cyclic & Spectroscopy</p>	<p>After completion of this course Learner can able to Isolate, study the physical , chemical, optical and biological properties, struxture determination, synthesis, biosynthesis, stereochemistry of natural products like alkaloids, steroids, hormones, rotenoids, porpylene and prostaglandins.</p> <p>Examine Structures, functions and sources of vitamins.</p> <p>Examine structure, bio catalytic activity, mode action, mechanism , inhibition, and immobilization of enzymes.</p> <p>Explain biogenesis, bio chemistry of various biological processes, biosynthesis of various organic and heterocyclic compounds by various pathways.</p> <p>Explain the Structure, physical properties, synthesis and reactivity of various heterocyclic compounds with two or more hetero atoms with 3,4,5,6,7,8 and 9 membered monocyclic & fused heterocyclic compounds.</p> <p>Analyse the compounds to determine the structure of compounds by using, 13C, 17F, 31P NMR, 2DNMR, Multipulse NMR and</p>
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				Drugs and Pharmaceuticals	<p>After completion of this course Learner can able to Discover lead to develop new drug molecules from various sources.</p> <p>Develop the drugs to optimize the activity by SAR And QSAR Studies.</p> <p>Explain and utilize the combinatorial synthesis to generate molecular library to screen the biological activity to produce new drugs to meet the market needs.</p> <p>Explain the mode of action of various drugs acting against various targets like anti bacterial, anti viral, Neurotransmitters, receptors, ionchannels, immune suppressors, enhances, DNA and RNA binding etc.</p> <p>Synthesize chiral drugs and evaluate its synthesis.</p> <p>Explain fermentation and genetic engineering of various chemical substances like vitamins, aminoacids, enzumes, nucleotides and</p>
35	M.COM	To acquaint the students with the various organizational theories and understand how and why individuals behave in the way they behave. How this effects the organization and how can organizations convert this behavior to their advantage. They	The students can navigate through the Quantitative Techniques used for business decision making by the managements. They will gain a complete understanding of the techniques of cost accounting and control and will be able to apply costing techniques for the reduction of costs in an organisation. The study of Taxation is designed to imbibe within the students the principles of sound tax planning while the study of Financial Markets and Services will enable them to get a thorough understanding of the	P.G-Course-1- Organization Theory and Behavior	<p>Gain an understanding of the organisation concept and models of organisation behaviour.</p> <p>Decipher individual behaviour with that of group behaviour.</p> <p>Understand and resolve conflict in groups.</p> <p>Comprehend personality, perception and attitude of individuals in relation to an organisation.</p> <p>Appreciate organisational climate and communication</p>

will also understand the Accounts maintained by managements for decision making and appreciate the Financial Management Techniques. They will get an overview of the Marketing aspects of a business and get familiar with the environment in which business operate.

them to get a thorough understanding of the vagaries of the financial system.

<p>P.G-Course-2- Accounting for Management</p>	<p>Gain the basic principles and standards of accounting.</p> <p>Develop the ability to use the information contained in the Financial Records for decision making.</p> <p>Develop a background in which the management accounting tools and techniques are used in the context of decision making.</p> <p>Analyse the financial statements.</p> <p>Comprehend the various tools of analysis to be used for maximising the wealth of the shareholders</p>
<p>PG Coures 3 Financial Management</p>	<p>Comprehend the introductory aspects of Financial Management.</p> <p>Understand the importance and functions of Financial Management in the efficient management of avenues available in financing options of business propositions.</p> <p>Analyze the investment decisions and prudently apply the techniques to maximise the benefits of the decisions made.</p> <p>Identify and evaluate the sources of finance.</p> <p>Analyze the determinants of cost of capital and components of capital structure</p>
<p>P.G-Course-4- Marketing Management</p>	<p>Understand the basics of marketing and analyze consumer behaviour and marketing research.</p> <p>Appreciate product management.</p> <p>Understand pricing policies and methods.</p> <p>Understand channel management.</p> <p>Decipher personal selling with sales promotion</p>

<p>P.G-Course 5 Business Environment</p>	<p>Familiarize with the Economic aspects of the Environment, Socio-cultural, Technological and political-legal environment in which the Businesses operate.</p> <p>Appreciate the nuances of the environment that suits the furtherance and development of business as also the industry.</p> <p>Understand the Industrial policy of the country and the role it plays in balanced development.</p> <p>Appreciate the measures policy makers adopt to synchronize development with inclusive growth with socio-cultural background of the masses being an active consideration.</p>
<p>P.G-Course-6 Quantitative Techniques</p>	<p>Gain a complete understanding of the tools of analysis like Time Series, Correlation and Regression.</p> <p>Understand the Theory of Probability and its use in decision making.</p> <p>Learn Binominal and Poisson Distributions.</p> <p>Understand Statistical estimation and hypothesis testing tools.</p> <p>Apply statistical quality control in business</p>
<p>P.G-Course-7 – Cost Accounting and Control</p>	<p>Comprehend that Cost Accounting is formal mechanism by means of which costs of products and services are ascertained.</p> <p>Acquire a practical knowledge of costing techniques adopted in the ascertainment of costs.</p> <p>Ascertain to a reasonable extent the material, labour and overhead costs incurred in a manufacturing organization.</p> <p>Understand the importance of material cost control; labour cost control and overhead cost control in bring down the price of a product being produced in the factory.</p> <p>Apply marginal costing techniques in decision making</p>

				<p>P.G-Course-8 Taxation</p> <p>Comprehend the various heads of income under which the tax liability is computed</p> <p>Be able to apply the rules of set-off and carry forward of losses in the calculation of the Tax liability of Individuals and Hindu Undivided Families.</p> <p>Gain an understand of the Partnership Firms and computation of their Tax liability</p> <p>Comprehend the Assessment Procedure of Companies.</p> <p>Gain an understanding the Indirect Tax regime through the study of GST</p>
				<p>P.G-Course-9 Financial Markets and Services</p> <p>Understand the complex financial systems prevailing in the Indian Financial Market.</p> <p>Comprehend the Regulatory frame work of the Money market.</p> <p>Understand the Regulatory frame work of the Capital Market.</p> <p>Understand the various Fund based Financial Services offered in the Financial Market.</p> <p>Comprehend the Fee based Financial Services offered by the service providers.</p>
				<p>P.G-Course-10 HUMAN RESOURCE MANAGEMENT</p> <p>Gain an ability of working with and through people and moulding their behaviour for organisational benefit.</p> <p>Analyze the recruitment policies and various selection procedures.</p> <p>Become acquainted with the performance appraisal, training and career planning</p> <p>Understand and appreciate organisational dimensions.</p> <p>Understand trade unions and unionism</p>

36	MLISc	<p>Acquaint the students with the role of information and communication in society</p> <p>To give the students an understanding of the application of modern management techniques in Library and Information Centres</p> <p>Familiarize students with various information systems and programmes at International, National and regional levels</p> <p>Impart training in various methods of Information Processing and Retrieval</p> <p>Provide students with theoretical practical knowledge of application of Information Technology in Library & Information Centres</p> <p>Impart knowledge of various research methods and their use in Library & information Science</p> <p>To provide students an area of specialization in any one of the areas of public, academic, special or digital libraries</p>	<p>Discuss the role of Information and Communication in the society</p> <p>Comprehend application of modern management techniques in LICs</p> <p>Acquaint with knowledge of International, National and Regional Information systems and their activities</p> <p>Use various Information Processing and Retrieval methods in Library operations</p> <p>Apply Information Communication Technology to Library Operations</p> <p>Acquaint knowledge of various research methods</p> <p>Specialize in any one specific type of library among academic, special, public and digital libraries.</p>	Information communication and Society	<ol style="list-style-type: none"> 1. Gain understanding of the nature and characteristics of information and how information is generated and transferred. 2. Students will be able to describe the various conventional and non-conventional communication media 3. Acquire knowledge of LIS education and Research in LIS.
				Management of Information Systems and Services	<ol style="list-style-type: none"> 1. Gain knowledge of the concepts of management, principles and different schools of management. 2. Able to comprehend the Organizational Structure of libraries and prepare organizational chart of their respective libraries 3. Deal with impact of any new Change introduced in the library on the library staff and functioning of the library.
				Information Processing and Retrieval	<ol style="list-style-type: none"> 1. Students will learn the bibliographic elements, their description and various bibliographic standards 2. Students will be able to describe, use and distinguish between different classification schemes 3. Learn the techniques in storage and retrieval of information 4. Learn the criterion for evaluation of information systems
				Information Systems and Programmes	<ol style="list-style-type: none"> 1. Gain understanding of the various models of information systems and networks 2. Students will know the various information systems functioning at International, regional and National levels 3. Students will gain understanding of the National information System 4. Students learn various information services and products
				Application of Information Technology	<ol style="list-style-type: none"> 1. Students will be aware of different library automation software 2. Students will develop understanding of various bibliographic databases and their search techniques 3. Understand the process of digitization, concepts of metadata and DRM
				Research Methodology	<ol style="list-style-type: none"> 1. Select a research problem and formulate a research design 2. Formulate research Hypothesis 3. Select appropriate method for research 4. Collect data, analyze data and Interpret the data 5. Prepare a research report

				Academic Libraries	<ol style="list-style-type: none"> 1. Students will be able to discuss the different types of academic libraries, their functions and services 2. Describe the development of academic libraries in India, UK and USA 3. Critically examine the role of UGC in the development and promotion of academic libraries in India 4. Plan and manage Academic library building, furniture, human resources and collection development 5. Understand importance of resource sharing and computerization of academic libraries
				Special Libraries	<ol style="list-style-type: none"> 1. Students will be able to work effectively in a special library environment 2. Students get acquainted with management practices of a special library 2. Students will be able to plan and design information services, products in a special library 3. Acquaint with International and National Professional bodies working for promotion of special libraries
				Public Libraries	<ol style="list-style-type: none"> 1. Work effectively in a public library 2. Understand the development of Public libraries, follow various norms and standards for public libraries and know the library legislation in India.
				Digital Libraries	<ol style="list-style-type: none"> 1. Learn the characteristics of a digital library 2. Describe the various digital library initiatives in India 3. Examine various Institutional Repositories in India 4. Learn digitization process 5. Discuss implications of copyright, IPR issues in digital library environment
				Information Technology Practical Manual	<ol style="list-style-type: none"> 1. Use the manual to develop understanding of Office applications 2. Creation database using CDS/ISIS
37	M.A in Political Science	Educate students about political theories, processes and governments in India and Elsewhere	Learners demonstrated the ability to explain the basic Political Concepts such justice, democracy, law liberty, rights etc. Critically evaluated Indian Constitutional law, policy or power dynamics. Learnt about how politics parameters almost	Course-I: Western Political Thought	<ul style="list-style-type: none"> • Gained knowledge of various concepts, theories and ideas of western political thinker, • learners interrelated western political thought and theory, • learners assessed the relevance of western political thought to the present day politics.

Prepare students for a variety of careers or further studies in the fields such as law, government, politics and policy sciences.
Offer students the analytical and research skills needed to understand and explain politics, government and international relations

every aspect of our lives.
Applied International Politics theoretical framework to contemporary issues.

Course-II: Indian Political System	Learners gained basic understanding about Indian political system, Gained knowledge about the Indian Constitution, and its provisions, identified Indian political institutions, their powers and functions, understood the functioning of Indian democracy.
Course-III: Public policy	Learners gained knowledge about the various approaches to study of Public policy, Identified various about theories and models of policy-making, Analysed the determinants in public policy-making process, learners got to know about the public policies in India.
Course-IV: Indian Political Thought	the learners identified the roots of ancient Indian political thought, gained knowledge about ancient, mediaeval and modern Indian political thinkers and their thought, assessed relevance of ancient Indian political thought to contemporary Indian politics.
Course-V: International Relations	the learners gained knowledge about theories of international relations, they explained the concepts and theories of international relations, analysed India's foreign policy, its relevance today and India's role in world politics. gained critical thinking among the learners about contemporary international issues.
Course-VI: Comparative Politics	gained knowledge theories of Comparative Politics, and evaluate contemporary political issues, <ul style="list-style-type: none"> • Explained the functioning of political systems and governments of diverse kinds with their institutions and structures, • analysed the various factors that influence the political processes in different political systems.

				<p>Course-VII: Political Sociology</p> <p>the learners gained knowledge about sociological concepts in India, explained the rise and impact of social movements in India, analysed the influence of caste, religion and gender in Indian politics.</p>
				<p>Course VIII: State Politics in India</p> <p>the learners identified State-level political institutions, their powers and functions’ gained basic understanding about functioning of the urban and rural local governments in State got to know about the role of Governor in India</p>
				<p>Course-IX: Social Movements in India</p> <p>the learners gained knowledge about the various social movements in India they traced the causes and factors of social movements in India assessed the relevance to these movements in the contemporary Indian politics.</p>
				<p>Course-X: Governance</p> <p>The learners came to know about the institutions and processes of Governance in India Learnt how to be a responsible citizen strengthening the functioning of the democratic system. Overall, get a holistic understanding of the subject.</p>

38	MBA	<p>PO1: Able to apply the knowledge of management theories, principles, practices, tools and techniques to solve business problems.</p> <p>PO2: Able to understand, analyze and communicate economic, legal, socio-cultural, technological, ethical and other related aspects of business – both national and international levels.</p> <p>PO3: Able to analyze the issues rationally and apply creative, innovative and feasible ideas to solve the issues.</p> <p>PO4: Able to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.</p> <p>PO5: Able to acquire in-depth knowledge in the area of specialization opted by them and apply the same in their profession.</p> <p>PO6: Able to demonstrate abilities such as initiative taking and innovative thinking in their acts.</p>	<p>Specific outcomes of the Programme are:</p> <p>PSO1: Able to apply knowledge gained by them in areas like Managerial Economics, Accounting for Management, Quantitative Methods, Operations Research, etc., to solve practical decision-making problems.</p> <p>PSO2: Able to develop Value-Based leadership ability and apply the same in their career, in addition to adopt good corporate governance models in the organizational set ups.</p> <p>PSO3: Able to communicate effectively with different stakeholders of the organization.</p> <p>PSO4: Able to apply proper Information Technology and Management Information Systems for the effective and efficient management of organizations.</p> <p>PSO5: Able to analyze the trends, and identify and formulate appropriate strategies at different stages / levels of an organization, both at national and international levels.</p> <p>PSO6: Able to employ the specialized skills acquired by them in the specialization area chosen by them (Finance / Marketing / Human Resource / Operations) for making right, rational and effective decisions at right time.</p> <p>PSO7: Able to contribute to the growth and development of the society through their research acumen and entrepreneurial skills.</p> <p>PSO8: Able to inculcate innovative thinking in the team members in addition to initiate measures for proper Knowledge Management in the</p>	<p>MBA – 01: Management Process</p> <p>MBA – 02: Managerial Economics</p>	<p>CO1: Acquire knowledge of Management principles, functions and contributions of different scientists in the field of management, and also contemporary management practices in some advanced countries.</p> <p>CO2: Learn in detail about Planning, Decision-Making and Management by Objectives and able to apply the concepts, process, skills, etc., in practice.</p> <p>CO3: Understand various concepts relating to Organizing, in addition to learning about various elements such as Delegation of Authority, Departmentation, Span of Supervision, Organization Structure and Relationships, Centralization and Decentralization and able to apply the knowledge gained in practice.</p> <p>CO4: Gain basic knowledge about Communication and Motivation, in addition to learning in detail about the leadership theories and styles and able to adopt them in practice.</p> <p>CO5: Explain the process, principles and techniques of Controlling and Coordination and able to apply the knowledge gained in their profession.</p> <p>CO1: Understand the concepts of Managerial Economics, Firm and Optimization, learn various behavioural theories, tools and techniques of optimization and able to apply them in managerial decision- making.</p> <p>CO2: Learn various concepts and analysis relating to demand and supply including demand function, law of demand, elasticity of demand, demand forecasting, demand estimation, supply function, law of supply, etc., and able to use such knowledge in their professional career.</p> <p>CO3: Appraise the importance of production function in organizations, various laws and concepts relating to the production function and able to use them in their career.</p> <p>CO4: Recall and employ the skills gained by understanding various concepts relating to cost and profit and in their analysis.</p> <p>CO5: Know different types of market structures, pricing strategies, pricing methods, etc., and able to execute the knowledge in designing appropriate pricing strategies</p>
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for proper time management in the organizations.

MBA – 03: Business Environment

CO1: Understand the meaning, types and constituents of business environment (both external and internal), process of environmental analysis, factors influence international business, different trade agreements, and able to identify the extent of the influence of these aspects on the functioning of organizations.
CO2: Explain the structure of Indian economy, Indian financial system, financial sector reforms, factors of economic environment, concepts of liberalization, privatization, globalization, and able to analyze the influence of these factors / concepts on business organizations.
CO3: Discuss the political and regulatory environment functioning in India, including Intellectual Property Rights, and able to interpret such knowledge properly in their career.
CO4: Summarize the influence of demographic, technological and socio-cultural environment on organizations and able to demonstrate the knowledge gained in decision-making.
CO5: Gain knowledge about the Industrial Policies, Monetary and Fiscal Policies and Foreign Trade Policy of the Indian Government and able to diagnose their influence on organizations.

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<p>MBA – 04: Accounting for Management</p>	<p>CO1: Learn about Financial Accounting, Double Entry System, preparation of Journal, Ledger, various Subsidiary Books, Trial Balance and able to prepare them.</p> <p>CO2: Understand the procedure relating to the preparation of Profit and Loss Account, Balance Sheet, and Preparation of the Company Final Accounts as per the provisions of the Companies Act, 2013 and able to prepare them.</p> <p>CO3: Gain knowledge about various aspects relating to Cost Accounting and able to calculate Break-Even Point, Profit-Volume Ratio, prepare different types of budgets, employ techniques like CVP Analysis, Break-Even Analysis, Variance Analysis, etc., in performance analysis of organizations.</p> <p>CO4: Discuss about various types of Financial Statements including comparative statements, common-size statements, funds flow statement, cash flow statement and able to prepare and analyze them using Ratio Analysis to know their impact on the organization.</p> <p>CO5: Recall about Financial Reporting System, specific issues in corporate reporting like social reporting, segment reporting, etc., Accounting Standards, IFRS and able to use the knowledge in their career.</p>
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<p>MBA – 05: Managerial Communication</p>	<p>CO1: Understand the basics of communication, including process, models, barriers and channels of communication and able to identify the steps to be taken to improve the process / remove the barriers.</p> <p>CO2: Comprehend about oral, written and non-verbal communication and able to apply appropriate skills for effective communication.</p> <p>CO3: Learn about the technology-enabled communication tools, tools of visual media communication, mass media communication, conducting meetings and conferences and able to use appropriate tools for effective communication.</p> <p>CO4: Appraise the importance of Reading, Listening, Interpersonal Communication Skills, understand Persuasive Communication, Ethics and Cross Cultural Communication and able to apply the skills for effective communication.</p> <p>CO5: Know how to prepare and present a report and able to write effective business letters, reports, etc.</p>
<p>MBA – 06: Information Technology for Managers</p>	<p>CO1: Familiarize with the basics of computer, meaning, types and uses of information systems, role and application of IT in business, EDI and e-Commerce, etc., and able to use the knowledge for the effective use of IT in the organizations.</p> <p>CO2: Explain the concepts of systems analysis, system design, phases of SDLC, environment and applications of online information systems, Business Continuity Planning, and able to apply the knowledge gained in system design, preparation of BCP, etc.</p> <p>CO3: Learn about the data communication (including the components, channels, devices, types, systems, etc.), data transmission, types and design of computer networks and able to employ the skills acquired in their career.</p> <p>CO4: Know about Data Management, Data Base Management System, Relational Data Base Management System, Data Analytics and able to apply the concepts and skills for effective business management.</p> <p>CO5: Memorize various types of security threats, cyber crimes, ethical issues involved in cyber activities, provisions of the IT Act, 2000, types of disaster, strategies of disaster recovery, etc., and able to identify the measures to be taken for the effective use of IT in organizations.</p>

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<p>MBA – 07: Organizational Behaviour</p>	<p>CO1: Understand the fundamental concept, nature, foundations of organizational behaviour (OB), organizational design, models of organizational behaviour including Hawthorne Studies, Scientific Management, Cognitive, Behaviouristic and Social Learning Models, Basic Model of OB, Systems Approach to OB and able to adopt appropriate model in their organizations.</p> <p>CO2: Acquire knowledge about the behaviour of an individual with different angles like personality, perception, learning, attitudes and values and various motivational theories and able to illustrate the knowledge in organizational situations.</p> <p>CO3: Gain knowledge about the behaviour of the groups by learning in detail about group dynamics, work teams, conflict management and stress management and able to manage group performance, in addition to resolving the issues relating to conflict and stress among the employees.</p> <p>CO4: Learn in depth about the organizational dynamics involving organization's culture and climate along with organization change which includes nature of change process-types of change etc., and able to establish proper culture in organizations, introduce changes in organizations, etc.</p> <p>CO5: Comprehend contemporary issues in OB like positive OB, positive psychology in work place, Subjective Wellbeing, Quality of Life, Emotions and Moods, Emotional, Social and Spiritual Intelligence, Emotional Labour, etc., and able to be initiate measures to introduce required measures for better work place behaviour of the team members.</p>
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MBA – 08: Financial Management	<p>CO1: Learn the fundamental concept of financial management focusing on its objectives, concept of managing, planning, and forecasting, also to develop an understanding to apply time value of money and its rationale and able to demonstrate the required knowledge in practice.</p> <p>CO2: Get a comprehensive and analytical ability about various aspects relating to Investment Decision like Capital Budgeting, Investment Evaluation Techniques including Payback Period, Accounting Rate of Return, Net Present Value, etc., analysis of risk in capital budgeting, and able to understand the implication of using different methods / techniques and use appropriate techniques in analysis.</p> <p>CO3: Acquaint knowledge about the components involved in the Financing Decision like sources of long-term and short-term sources of finance, hybrid finance, pattern, determinants and theories of capital structure, determinants, classification and computation of cost of capital, leverage analysis etc., and able to illustrate the knowledge in their career.</p> <p>CO4: Appraise the knowledge relating to Dividend Decision function of finance like management of earnings, kinds, sources and uses of surplus, reserves, dividend theories dividend decisions, dividend policies, etc., and able to use knowledge to take wise decisions in this area.</p> <p>CO5: Get a deeper knowledge about various aspects relating to an auxiliary function of finance, 'Working Capital Management', like the basic concept of working capital management, estimation of working capital, management of cash, accounts receivables, and inventory, and able to apply the knowledge in decision making at various levels.</p>
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<p>MBA – 09: Marketing Management</p>	<p>CO1: Know the concept of marketing and marketing management, marketing process, marketing environment, concept of marketing mix and its expanded elements, concept, classification, marketing mix of services marketing, service quality and its dimension, various aspects relating to Customer Relationship Management, etc., and able to analyse the marketing environment, design the optimum marketing mix for both products and services, implement suitable model of CRM, etc., in different organizational situations.</p> <p>CO2: Comprehend about the concept, bases, strategies of market segmentation, target marketing, positioning, concept of marketing organization and its principles, types and factors affecting it, concept, importance and application of marketing research, concept and components of MKIS, etc., and able to make effective decision in various areas.</p> <p>CO3: Understand various aspects relating to the consumer behaviour like classification of consumers, applications of consumer behaviour, factors influencing it, types of purchase decisions, process of consumer decision making, model of buyer behaviour, post-purchase behaviour, industrial buying behaviour, know about Indian consumer markets and able to properly analyze the behaviour of consumers and make decisions accordingly.</p> <p>CO4: Gain knowledge about the concept of product, product mix, classification of products, concept of Product Life Style, various issues relating to new product development, packaging, labelling, and branding, and also about the concept of pricing, pricing policies, strategies, etc., and able to make relevant decisions in product and pricing areas.</p> <p>CO5: Learn in detail about the integrated marketing</p>
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<p>MBA – 10: Human Resource Management</p>	<p>CO1: Understand the concept, employment cycle, key process areas, etc., of Human Resource Management (HRM), strategic HRM, organization structure of HR department, HR policies, impact of business environment on HRM, job analysis, job design, and human resource planning and able to apply HR planning and other techniques and policies in organizations.</p> <p>CO2: Learn in detail about the recruitment, selection, induction, placement, mobility and separation (transfer, promotion, demotion, etc.), concepts of learning, training and development, career planning and development, methods of training and development, career model, etc., and able to use the skills learnt in all these areas in their career.</p> <p>CO3: Comprehend the concepts of performance management, performance appraisal, job satisfaction, employee morale, talent management, competency management, process and methods of performance appraisal, performance management cycle, factors affecting job satisfaction and morale, measuring job satisfaction and morale, etc., and able to illustrate the knowledge in organizational situations.</p> <p>CO4: Get a deep understanding about the process, principles and methods of job evaluation, methods of wage payment, welfare and social security measures, special provisions for women, concept of reward management, components of reward system, employee engagement and retention strategies and able to demonstrate the knowledge in real like situations.</p> <p>CO5: Learn about the Human Resource Information System, Human Resource Accounting and Human Resource Audit and able to introduce these concepts in organizations for the better management of human resource.</p>
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<p>MBA – 11: Operations Management</p>	<p>CO1: Know the concepts of operations management, productivity, productivity engineering, productivity management, labour productivity index, operations strategy, etc., process of operations strategy, trends in operations management like Total Quality Management, Lean Operations, Supply Chain Management, World Class Manufacturing, etc., and able to design suitable operations strategy in organizational situations.</p> <p>CO2: Learn in detail about various aspects relating to product and process selection, plant and site location, plant layout and materials handling, capacity handling, work design, job design, and able to select a product, process, location and site, draft a plant layout, implement the techniques relating to capacity handling, work and job design in their profession.</p> <p>CO3: Learn skills about the planning and control of production systems, viz., Mass, Batch and Assembly Line and Fabrication Lines, Job Order Shop Production, PERT and CPM and able to employ the skills in real life situations.</p> <p>CO4: Comprehend various issues relating to quality management like statistical quality control, quality standards, constructions of control charts, to purchase procedures like purchasing decisions, vendor management, etc., to outsourcing like types of outsourcing, multilevel sub-contacting, etc., and to maintenance management like maintenance systems, failure analysis, methods of maintenance management, etc., and able to make appropriate decisions in these areas in their profession.</p> <p>CO5: Learn and acquire skills in managing materials, inventory, stores management areas and also relating to value analysis and able to employ them for effective management of materials.</p>
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<p>MBA – 12: Quantitative Techniques</p>	<p>CO1: Comprehend classification of Quantitative Techniques and its approaches, significance and application of progression, matrix and calculus (maxima and minima) in decision making and able to apply the knowledge in their career.</p> <p>CO2: Understand the concept, importance and process of Business Research, ways to collect data (primary and secondary), various measures of central tendency (Mean, Median, Mode, etc.), measures of variation and skewness and able to use appropriate methods for data collection and its analysis.</p> <p>CO3: Acquire knowledge about Correlation Analysis, Regression Analysis and Time Series Analysis and able to apply appropriate techniques for data analysis.</p> <p>CO4: Learn the concepts of Probability and its Theorem like, Addition, Multiplication, Conditional, Bayes etc., discrete and continuous probability distributions (Binomial, Poisson and Normal Distributions) in solving business problems and able to use them in analysis and in decision-making.</p> <p>CO5: Gain knowledge about meaning and methods of sampling, meaning, types and formulation of Hypothesis, hypothesis testing procedure, One Tailed and Two Tailed tests, tests of hypothesis like parametric and non parametric, interpretation of data and writing the report and able to use proper techniques for data collection and hypothesis testing, interpret the data properly and present in the form a report.</p>
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<p>MBA – 13: Business Ethics and Corporate Governance</p>	<p>CO1: Know the ethics and values according to business through the concept, various theories, Indian value system and its relevance; and also bringing in human values and professional ethics and able to identify the ethical theories, Indian value system, human values required to run the organizations ethically.</p> <p>CO2: Understand the ethical corporate behaviour by various work ethics in business and management like codes, dilemmas and dialectics, cognitive moral development, major unethical business practices, ethics as the basis for inspirational motivation, models of motivation, personal ethics, karma yoga, etc., concept of ethical leadership, value based management, ethics committees, ethical leadership strategies, etc., and able to employ relevant concepts in organizational situations.</p> <p>CO3: Get an understanding about the ethics in decision making, in functional areas and in intellectual property rights and able to demonstrate the knowledge in real life situations.</p> <p>CO4: Learn in detail about the evolution, significance, committees and models of corporate governance, role of corporate governance in social responsibility, and accountability in corporate governance, and able to identify good corporate governance practices and implement them in real life situations.</p> <p>CO5: Acquire knowledge about the role of top management, auditors, stakeholders, etc., in corporate governance, other issues in corporate governance like mismanagement, corporate frauds, supervision and control of Stock Exchanges, RBI, etc., and able to illustrate the knowledge in their profession.</p>
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MBA – 14: Strategic Management	<p>CO1: Understand the meaning and various concepts of Strategic Management including the vision, mission, objectives, etc., strategy formulation processes and the key approaches to planning and implementation of strategies and able to appraise the importance of these concepts in strategic management and also identify the approaches suitable to the organizations.</p> <p>CO2: Appraise the role of environmental analysis in strategic management, environmental components, factors that influence the strategic business through environmental scanning, meaning, methods and techniques of organizational analysis and able to use appropriate methods / techniques for environmental and organizational analysis.</p> <p>CO3: Acquire skills about strategic analysis from different angles like cost analysis, financial analysis, value chain analysis, along with portfolio analysis and matrices in order to scan the business and able to employ the skills in real like situations in analysis of strategic alternatives.</p> <p>CO4: Learn about classification of strategies, viz., grand and generic strategies, expansion strategies, mergers, acquisitions, strategic alliances, retrenchment strategies, etc., able to identify and formulate various strategies required to run the organization successfully.</p> <p>CO5: Know in detail about the implementation strategies and various aspects relating to it like the structure, leadership, culture, etc., institutionalizing the strategy, evaluating and controlling them so as to work on par with the current trends and able to initiate measures for the implementation, evaluation and control of strategies.</p>
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MBA – 15: Management Information Systems	<p>CO1: Learn about the concepts of the MIS, its role in decision making at various levels, trends in MIS like data analytics, business intelligence and artificial intelligence, and able to appraise the role of MIS in effective decision with the help of latest technology.</p> <p>CO2: Comprehend the structural framework of MIS like the structure and planning of MIS, technologies in MIS (hardware, software, CPU, etc.), and types of information systems (OSS,MIS, DSS, EIS), and various concepts relating to data management like data warehousing, data mining, data mart and able to implement the knowledge in their career. CO3: Understand the overview of system development, the methods of system development like SDLC, prototyping, critical success factors, etc., both traditional and modern tools and methodologies for effective MIS and able to use the knowledge in organizational situations. CO4: Gain knowledge about methods of implementing and maintaining MIS, the security issues, and also about information resource management like business resources, data resources, etc., and able to identify actions to be taken on various issues learnt.</p> <p>CO5: Acquire skills relating to the applications of information system in various functional areas – HRM, marketing, operations, and finance and accounting and able to implement the skills in practice.</p>
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<p>MBA – 16: Entrepreneurship Development</p>	<p>CO1: Understand the concepts of entrepreneur, intrapreneur, entrepreneurship, factors influencing entrepreneurship development, problems of entrepreneurship, and role of entrepreneurship in economic development, and able to use the knowledge in practical situations.</p> <p>CO2: Understand the theories of entrepreneurship through economic and non-economic factors, and able to interpret them in the real circumstances.</p> <p>CO3: Analysing different aspects relating to the promotion of an enterprise, i.e., types of ownership, developing business ideas and plans, and sources of financing and able to use the knowledge in real situations.</p> <p>CO4: Acquire skills relating to the analysis of projects from different angles and with the help of different techniques, preparation of a Detailed Project Report, and formulating entrepreneurial growth strategies, and able to employ the skills in real situations.</p> <p>CO5: Know the entrepreneurial support systems extended by the Governments and other institutions to MSMEs, including the export promotion facilities, special schemes offered to women entrepreneurs and to rural entrepreneurship, training and development programmes, etc., and able to explore them in practical situations.</p>
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MBA – 17: Operations Research	<p>CO1: Understand the meaning and importance of Operations Research, formulation and solving the Linear Programming Problems through graphical and simplex methods and able to apply in the knowledge in organizational situations.</p> <p>CO2: Acquire skills relating to linear programming methods through the use and study of case situations, determining relationships between variables (primal and dual relationships), analysis of methods, transportation problems and assignment problems, and able to employ the knowledge in organizational situations.</p> <p>CO3: Understand the applicability of various concepts like the Queuing Theory, Stimulation and Game Theory, at the same time understanding their significance, structures and modes of analysis, and able to illustrate the knowledge in organizational situations.</p> <p>CO4: Get an in depth knowledge about various facet of decision analysis – decision theory under certainty, risk and uncertainty, decision tree analysis, and replacement models and able to illustrate the knowledge in organizational situations.</p> <p>CO5: Learn various advanced Operation Research techniques like integer programming, dynamic programming, non-linear programming, and goal programming, and able to use the knowledge in organizational situations.</p>
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<p>MBA – 18: International Business</p>	<p>CO1: Understand the concept and importance of international business, international business environment, globalization and different modes of entry into international business, and able to analyze the factors influence international business environment, identify the suitable mode of entry, etc.</p> <p>CO2: Learn the concept of country risk, country risk factors, measuring country risk, foreign exchange market, exchange rate systems, exchange rate mechanism, exchange rate systems followed in India, current and capital account convertibility, and able to analyze these factors properly while entering into international business.</p> <p>CO3: Acquaint with the concept of international trade through theories, balance of payments, trade policy instruments and world trade organization, and able to use the knowledge in practical situations.</p> <p>CO4: Familiarize with the forms of foreign investment, global monetary system, and bilateral and multilateral trade agreements, and able to interpret the knowledge in organizational situations.</p> <p>CO5: Know the concept of foreign trade, trends in foreign trade, Export-Import Policy, institutional support for foreign trade in India, and contemporary current trends in international business like transfer technology, block chain technology, ethics in international business, etc., and able to apply the knowledge in their career.</p>
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<p>MBA – 19: Innovation and Knowledge Management</p>	<p>CO1: Understand the concepts innovation, innovation management, levels, types and components of innovation, innovation environment in India, assumptions of and barriers to innovation management, formulation and types of innovation strategies, models of innovation, and promoting innovation, etc., and able to encourage the team to think creatively, generate innovation ideas, etc.</p> <p>CO2: Familiarize with innovation management in manufacturing and service sectors like developing new products and services, process innovations and innovation diffusion, and able to identify the scope for improvement / changes / new introductions in these areas.</p> <p>CO3: Comprehend about the concepts of knowledge, knowledge management, classification of knowledge, knowledge management cycles and models, and strategic dimensions of knowledge management, and able to adopt appropriate model of knowledge management in organizational situations.</p> <p>CO4: Gain knowledge about various aspects relating to the knowledge management system and architecture like knowledge management system life cycle, knowledge creation, capture and codification, knowledge management system development, and knowledge system training and deployment, and able to use the knowledge in real life situations.</p> <p>CO5: Comprehend about other concepts and aspects relating to knowledge management like knowledge workers, learning organization, knowledge audit, knowledge management metrics, and knowledge transfer, and able to demonstrate the knowledge in organizational set ups.</p>
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MBA -411: SECURITY ANALYSIS AND PORTFOLIO MANGEMENT	<p>CO1: Understand the meaning, significance, principles and process of investment, factors determining investment, instruments of investment, types of investment risks, legal framework, functions, and components of securities market, stock exchanges, SEBI, and stock market indices, and able to identify various investment opportunities in stock markets, calculate stock index, etc.</p> <p>CO2: Comprehend various facets of the Securities Valuation like risk and return measurement, risk diversification, valuation of common stock, and valuation of fixed income securities, and able to apply the knowledge in their career.</p> <p>CO3: Acquire skills relating to securities analysis from different angles, viz., fundamental analysis, technical analysis and efficient market theory, and able to apply the skills in their profession.</p> <p>CO4: Gain knowledge about various concepts relating to portfolio management like portfolio analysis, single index model, factors models, and able to illustrate the knowledge in effective portfolio management.</p> <p>CO5: Get acquaint with other aspects relating to portfolio management like portfolio evaluation, portfolio revision, and institutional and managed portfolios, and able to identify the steps to be taken on various areas learnt for effective portfolio management.</p>
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<p>MBA – 412: FINANCIAL MARKETS AND SERVICES</p>	<p>CO1: Get an overview of both the Indian financial system and financial services, and the financial sector environment in India (bank mergers, technological changes, financial technology in banking sector, etc.), and able to appraise the role of financial system, financial services and financial environment in the development of economy.</p> <p>CO2: Get a deeper knowledge about the components of Indian financial markets, namely, capital markets, money markets, foreign exchange and derivatives markets, and commodities markets, and able to know various instruments / sub-markets dealt with by these markets, along with their importance.</p> <p>CO3: Appraise the concepts of Banking and Insurance Services, like types of banks, technology enabled banking services, digital payments, types of insurance, the concept and implications of Financial Inclusion, etc., and able to use the knowledge in real life situations.</p> <p>CO4: Learn about few other financial service offered by financial markets like Merchant Banking, Mutual Funds, Crediting Rating, Venture Capital and Private Equity, and able to demonstrate the knowledge in organizational situations.</p> <p>CO5: Familiarize with few other financial services, namely Leasing, Hire Purchase, Instalment System, Factoring, Forfeiting, Custodial and Depository Services, Dematerialization and various other services like housing loans, plastic cards, securitization, etc., and able to employ the knowledge in organizational set ups.</p>
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<i>MBA – 413:</i> <i>MANAGEMENT CONTROL SYSTEMS</i>	<p>CO1: Understand the conceptual framework of management control systems like meaning, functions, boundaries, types, etc., of control systems, designing of management control systems, etc., and able to appreciate the importance of efficient management control system in organizations, their designing, etc.</p> <p>CO2: Get an overview of Responsibility Centres, and know in detail about expense centres, revenue and profit centres, and able to employ the knowledge in organizational set up.</p> <p>CO3: Learn in detail about investment centres, the concept, methods, problems, technical issues of transfer pricing, etc., and able to employ the knowledge in practical situations.</p> <p>CO4: Acquire skills relating to the management control process like programming and budgeting, budgetary control, variance analysis and reporting, performance evaluation, and management audit, and able to apply the skills in their career.</p> <p>CO5: Gain knowledge about the applications of the management control systems special cases / projects like multinational companies, projects, multi-project organizations, service organizations (both profit and non-profit oriented), and able to demonstrate the knowledge in the given organizational situations.</p>
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<p>MBA - 414: INTERNATIONAL FINANCIAL MANAGEMENT</p>	<p>CO1: Get an overview of the international financial management, theories of foreign exchange rates, and exchange rate mechanism, and able to appreciate the relevance of theories, factors influencing exchange rates, etc.</p> <p>CO2: Gain an understanding about the markets for foreign exchange and derivatives like foreign exchange market, markets for currency futures, and markets for currency options, etc., and able to illustrate the knowledge in practice.</p> <p>CO3: Learn in detail about forecasting exchange rates, measurement and management of foreign exchange exposures, and able to use the knowledge in the relevant areas.</p> <p>CO4: Learn skills relating to various aspects of international investment decision like foreign direct investment, international capital budgeting, and international portfolio investments, and able to apply the skills in their career.</p> <p>CO5: Learn various aspects relating to international financing decision like international financial market, multilateral development banks and international financial markets instruments, and able to apply the knowledge in their career.</p>
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<p>MBA-421: CONSUMER BEHAVIOUR AND MARKETING RESEARCH</p>	<p>CO1: Understand the concept of consumer behaviour through understanding the nature, scope and applications of it, the concept and characteristics of lifestyle marketing, changing life styles of Indian consumers life style segmentation, the concept and models of organizational buying behaviour, types of organizational buyers, organizational buying decision making process, etc., and able to apply the knowledge while dealing with individual and organizational buyers.</p> <p>CO2: Learn in detail about the buying process of consumers through understanding the Consumer Development Model, types of decisions, need recognition, search for alternatives and evaluation of alternatives, factors influence evaluative criteria, the concept of Purchase and Post-Purchase Behaviour, brand choice, store choice, purchase behaviour for online shopping, post-purchase behaviour, etc., and able to demonstrate the knowledge in practical situations.</p> <p>CO3: Gain knowledge about various dimensions of the influences on consumer behaviour like personality and psychographics, family and also the social and cultural influences and able to identify and analyze the most influencing factors in the organizational set ups.</p> <p>CO4: Comprehend the vast concept of Marketing Research and Information System through the nature, scope, users, process, applications, problems, ethics, etc., of marketing research (with special focus on MR in India), International Marketing Research, concept, dimensions, etc., of Marketing Information System, and able to employ the knowledge in conducting marketing research in practical situations.</p> <p>CO5: Acquire knowledge and skills relating to various facets of the marketing research process involving research design, data</p>
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<p>MBA - 422: ADVERTISING AND SALES MANAGEMENT</p>	<p>CO1: Know the basics of advertising like the concept, types, functions, ethics, theories, various implications, etc., of advertising, role of advertising in marketing mix, advertising campaign and budget, etc., and able to appraise the role of advertising in marketing the products / services effectively.</p> <p>CO2: Learn various issues relating to advertising management like message decisions; media planning, selection, scheduling; measuring the effectiveness of advertising, meaning, types, functions, etc., of advertising agencies, legal aspects relating to advertising, etc., and able to demonstrate the knowledge and apply the skills in real world situations.</p> <p>CO3: Comprehend the basics of sales management like meaning, importance, process, functions of sales management, sales activities, personal selling and salesmanship, theories of selling, meaning, advantages, etc., of sales force automation, etc., and able to illustrate the knowledge in their profession.</p> <p>CO4: Get a deeper understanding about various facets relating to sales planning and implementation like sales planning, budgeting and control, meaning of sales territories and sales quotas, developing and managing sales territories, monitoring sales targets, sales forecasting techniques, strategic sales plans including analysis relating product, customers, PLC, etc., and able to identify the measures for better planning and implementation of sales function.</p> <p>CO5: Know in detail about the sales organization and management including the purpose and setting up of sales organization, types of organizational structures, about recruitment, selection and training, compensation of sales force, motivating and controlling the sales personnel, cost and profitability analysis, performance analysis, etc., and able to</p>
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<p>MBA - 423: RETAILING MANAGEMENT</p>	<p>CO1: Learn the fundamental concepts, theories benefits, etc., of retailing, its evolution process and classification basis, nature and scope of retail organizations, evolution, development, structure, and changing trends of retailing in India, etc., and be able to identify the scope for retailing sector in India.</p> <p>CO2: Acquaint with various Retailing Strategies within the field and scope of HRM, finance and marketing, as well as understanding the concept of retail location and designing, and able to design appropriate strategies in organizational situations.</p> <p>CO3: Know about various facets of retaining product and pricing management like merchandise management, category management, sales forecasting, planogram, Merchandise Management, Retail Branding, quality in retailing, factors affecting the pricing decisions, price sensitivity, pricing strategies and approaches, etc., and able to take appropriate decisions in these areas.</p> <p>CO4: Gain understanding about various aspects of retail advertising, sales promotion, servicing the retail customers like customer service approaches, indicators of quality services, social media marketing, logistics management in retail sector, etc., and able to use the knowledge in practical situations.</p> <p>CO5: Know not only about the customer of the retail chain and studying their behaviour but also about the retail store operations, atmospherics and retail space management, various trends currently present in retailing, etc., and able to design the stores as per the needs, requirements of customers, taking into consideration the trends in the sector.</p>
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<p>MBA – 424: INTERNATIONAL MARKETING</p>	<p>CO1: Understand the concept of International Marketing, various environmental variables/factors which affect it, the process and modes of entry into international markets, etc., and able to identify and conduct international environmental analysis and also find out a suitable mode of entry / entries into international markets in the given organizational set ups.</p> <p>CO2: Know in detail about the composition and design of international marketing mix, namely, product planning, pricing, international marketing communication, the marketing channels, and able to take appropriate decisions in designing it.</p> <p>CO3: Get an understanding about various international marketing strategies like product pricing, promotion and distribution strategies, Product Life Cycle, about the Segmentation, Targeting and Positioning in the international market, in addition to learn in detail about international services marketing, and able to formulate strategies in respective areas.</p> <p>CO4: Gain knowledge about various aspects relating to international marketing research like understanding the preferences, taste and behaviours of the consumers of the target market through International Marketing Research and Intelligence, about the ethical issues, like human rights, free trade and corporate social responsibility in international markets, etc., and able to employ the knowledge in their profession.</p> <p>CO5: Learn about the regulatory environment including the international marketing regulatory organizations, export marketing and procedural aspects, and international marketing risks, and able to initiate compliance measures within the specified regulatory framework.</p>
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<p>MBA – 431: PERFORMANCE MANAGEMENT</p>	<p>CO1: Understand the concept, elements, benefits, etc., of performance management, drivers of high performance, performance management process and cycle, meaning and process of performance management planning and development, etc., and able to design and implement performance management process in organizations.</p> <p>CO2: Learn in detail about the meaning and objectives of performance analysis, facilitating an inhibiting factors, factors affecting employee productivity, productivity measurement issues, productivity improvement, models of productivity, performance audit, etc., and able to use the knowledge in organizational situations.</p> <p>CO3: Acquire knowledge and skills relating to Performance Measurement including 3600 appraisal, RSDQ Model, tools used in assessment centres, potential appraisal as a tool for promotion, career and succession planning, etc., and able to employ the skills in practical situations.</p> <p>CO4: Comprehend about various aspects of performance review and counselling including performance monitoring, DSMC / ATI Model, Performance Grid SMC, ATI Model, mentoring and protégé development, performance counselling, performance management tools, etc., and able to employ the knowledge in organizational set ups.</p> <p>CO5: Get an understanding about the application of Performance Management concepts in practice like line managers and performance management, performance linked reward system, team performance management, model of team performance, and performance management in the manufacturing, service and IT sectors through few case studies, and able to demonstrate the knowledge in their career.</p>
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<p>MBA – 432: LABOUR LAWS</p>	<p>CO1: Comprehend the concept of labour laws with the help of Indian Constitution (Preamble and Directive Principles), know framework of labour legislations in India, and also the role of International Labour Organization in the enactment of labour legislations in India, and able to appraise the role of various labour legislations in managing and dealing with various issues relating to human resource in organizations.</p> <p>CO2: Gain knowledge about the legislations on factories, recruitment and training, namely, Factories Act, 1948, Trade Union Act, 1926, Employment Exchanges (Compulsory Notification of Vacancies) Act, 1959 and The Apprentices Act, 1961, and Industrial Employment Disciplinary Action (Standing Orders), 1946 and Industrial Disputes Act, 1947, and able to apply the knowledge in organizational situations.</p> <p>CO3: Gain knowledge about the legislations on wages and salary, namely, Payment of Wages Act (1936), Minimum Wages Act (1948), Payment of Bonus Act (1965), and Equal Remunerations Act (1976), and able to apply the knowledge in organizational situations.</p> <p>CO4: Gain knowledge about the legislations on social security, namely, Workmen’s Compensation Act, 1923, Employees’ State Insurance Act, 1948, Provident Funds and Miscellaneous Provisions Act, 1952, Payment of Gratuity Act, 1972, Contract Labour (Regulation and Abolition) Act, 1970, and Maternity Benefit Act, 1961, and able to apply the knowledge in organizational situations.</p> <p>CO5: Gain knowledge about the legislations relating to different contemporary issues, namely, Child Labour (Prohibition and Regulation) Act, 1986, Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013,</p>
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<p>MBA –433: MANAGEMENT OF INDUSTRIAL RELATIONS</p>	<p>CO1: Get an overview of the concept and evolution of Industrial Relations in the Pre- and Post-Independence Era of India as well as its theories and approaches, the role it plays in changing the profile of major stakeholders within the country, etc., and able to recollect the knowledge in the given situations.</p> <p>CO2: Know the functioning of Trade Unions in India (structure, role and activities / functions), meaning, causes and consequences of Industrial Disputes, machinery for the settlement of industrial disputes, growth, structure and also the role of employer’s organizations in industrial relations, etc., and able to appraise the role of trade unions, employers’ organizations and Industrial Disputes Act in the maintenance of good industrial relations.</p> <p>CO3: Get an in depth knowledge about various aspects relating to employee grievance handling, maintenance of employee discipline, collective bargaining and negotiation, etc., and able to use the knowledge in practical situations.</p> <p>CO4: Acquire knowledge about various methods of employee involvement in decision-making like participative management, Works Committee and Joint Council of Management, in addition to learning about employee empowerment and quality of work life, etc., and able to use appropriate methods in practical situations.</p> <p>CO5: Know about few contemporary issues in industrial relations like the role of International Labour Organization in the maintenance of IR, few issues that influence IR like technological changes, Artificial Intelligence, BPO, KPO, sexual harassment, etc., and also about the IR practices in few countries like UK, Germany, Japan, etc., and able to make appropriate decisions with the help of the knowledge gained.</p>
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<p>MBA – 434: INTERNATIONAL HUMAN RESOURCE MANAGEMENT</p>	<p>CO1: Learn about the concept and scope of IHRM, organizational dynamics of IHRM, global issues and challenges like drivers of internationalization of business, barriers in effective IHRM , IHRM in cross-border mergers and acquisitions, and also about few Cross-Cultural Theories, and able to recollect and use appropriate theory / theories in organizational set ups.</p> <p>CO2: Understand the functional issues IHRM such as procurement and development of HR, and also retention management of IHRM through reward system, etc., and able to employ the knowledge in practical situations.</p> <p>CO3: Gain knowledge about the HR strategies to deal with challenges (both organizational and environmental) like Learning Organization, developing HR brand, HR ethical issues, applications of Knowledge Management in HR activities, and also about the changing environment of HRM like human and cultural variables in global organizations, cross cultural issues, managing virtual organizations, etc., and able to illustrate the knowledge in practical situations.</p> <p>CO4: Acquire knowledge about HR practices (issues and challenges) in countries like USA, Canada, Japan, China, England, France, and Germany, and able to adopt the knowledge in practical situations.</p> <p>CO5: Comprehend the contemporary issues of IHRM like Human Resource Information System, role of IT in effective human resource management, and few other issues like outsourcing, quality of work life, managing expatriates, women expatriates, repatriation, international labour standards, role of social media in IHRM, etc., and able to identify measures to be taken for effective management of HRM at international level.</p>
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<p>MBA-441: SUPPLY CHAIN MANAGEMENT</p>	<p>CO1: Learn the concept, functions, framework, etc., of supply chain management, value chain, supply chain structure and its integration with internal and external stakeholders, planning and network design decisions of supply chain, etc., and able to illustrate the knowledge in their career.</p> <p>CO2: Understand the drivers of supply chain, the sourcing decision in supply chain (negotiations and contract, group purchasing, supplier partnerships, etc.), concept of logistics management, inbound, internal, outbound, 3PL and 4PL logistics, transportation in supply chain, etc., and able to employ the knowledge in organizational situations.</p> <p>CO3: Get a deeper understanding about the supply chain coordination including various supply chain operations (demand planning, forecasting, bull-whip effect, warehousing management system, etc.), inventory management in supply chain (role, importance, models, policies, etc.), supply chain performance measures (quantitative, qualitative, SCOR Model, Balanced Score Card, etc.), and role of information technology in supply chain (including e-supply chain, RFID, Bar Coding, etc.), and able to apply the knowledge in their career.</p> <p>CO4: Gain knowledge about the strategic issues in supply chain like strategic partnerships, strategic relationships, etc., supply chain customer service, complaint handling, developing customer service strategy, meaning, types, process of bench marking, supply chain restructuring, etc., and able to employ the knowledge in practical situations.</p> <p>CO5: Acquaint with the trends in supply chain like global supply chain management, organizational issues like changing market scenario, data management, HR issues, new models and trends in SCM like outsourcing, lean manufacturing, waste management,</p>
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<p>MBA - 442: TOTAL QUALITY MANAGEMENT</p>	<p>CO1: Understand the concepts of quality and TQM, dimensions and elements of quality, quality circles, philosophies of quality gurus like Edward Deming, Joseph Juran, Philip Crosby, etc., quality awards and guidelines, quality standards prescribed by the International Organization for Standardization (ISO), etc., and able to appraise the role of importance of TQM in organizations, philosophies of quality gurus and comply with quality standards.</p> <p>CO2: Learn various quality tools and techniques like statistical tools (Check Sheets, Flow Charts, Scatter Diagrams, Cause-and-Effect Diagrams, Pareto's Chart, etc.), meaning of quality control, variation as a basis of quality control, acceptance sampling plans, Statistical Quality Control techniques (Control Charts), Japanese 5-S concept, and able to apply the skills in their career.</p> <p>CO3: Acquaint with various aspects relating to quality implementation like Taguchi Quality Engineering, reliability, cost of quality and quality function deployment, and able to apply the knowledge in practice.</p> <p>CO4: Acquire knowledge about Six Sigma like the meaning, statistical definition of Six Sigma, Six Sigma Certification Process, Implementation of Six Sigma (Technical Aspects of Six Sigma, Fundamental Areas Affected by Six Sigma, Kaizen, Kanban), and Six Sigma Metrics, The DMAIC Model, etc., and able to make effective decisions with the help of knowledge gained.</p> <p>CO5: Gain knowledge about the implementation of TQM including TQM in service sectors (health care, financial services, etc.), quality culture and leadership, human factor in TQM, role and functions of top management in quality improvement, strategic quality management, listening to the voice of customer,</p>
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<p>MBA - 443: WORLD CLASS MANUFACTURING</p>	<p>CO1: Understand the evolution and the philosophies of World Class Manufacturing (WCM), business challenges in information age, Global competitiveness and manufacturing excellence, the strategic decisions pertaining to manufacturing management, manufacturing management practices, models of WCM, manufacturing excellence through Value Added Manufacturing, etc., and able to appraise the importance of WCM in achieving competitive advantage and excellence.</p> <p>CO2: Learn about the manufacturing process planning and tools like information management tools (CAD/CAM, CAPP, GT, Bar Code, etc.), Material Requirement Planning (MRP) and MRP-II, Just-in Time manufacturing, and the process and applications of Lean Manufacturing, and able to apply the tools in organizational situations.</p> <p>CO3: Know about the innovative manufacturing systems like technological innovation in manufacturing (sustainable manufacturing, Industry 4.0, Additive Manufacturing, etc.), modern manufacturing methods (Adaptive Control, Rapid Prototyping, Nano Manufacturing, Computer Aided Simulations, etc.), automation and robotics, etc., and able to introduce innovative systems in the organizations.</p> <p>CO4: Comprehend about the dimensions of Human Resource Development Practices and Performance Management required for WCM like team work, performance indicators, performance measurement systems (Metrics, Balanced Scorecard Metrics, Six Sigma, etc.), environmental impact on WCM and green auditing, environmental audit programme in India, and able to identify the measures for effective HRD in practical situations.</p> <p>CO5: Gain knowledge about the impact of globalization on WCM like Ergonomics, Business Process Outsourcing, and</p>
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<p>MBA - 444: MAINTENANCE MANAGEMENT</p>	<p>CO1: Understand the concepts, functions, roles, responsibilities, and challenges of Maintenance Management within a company, structure and functions of maintenance department, strategies of maintenance management (Breakdown Maintenance, Preventive Maintenance, Predictive Maintenance, etc.), costing and budgeting issues relating to maintenance, concept, elements, etc., of planned maintenance system, meaning, tools and techniques of maintenance control, and able to make decisions relating to costing, budgeting, control, etc., of maintenance, in addition to designing appropriate maintenance strategies.</p> <p>CO2: Learn and acquire skills relating to maintenance planning and scheduling methods like forecasting, planning and scheduling maintenance, Failure Data Analysis, MTFB, MTTR, decisions relating to the replacement of machinery, and able to employ the skills in real set ups.</p> <p>CO3: Know the key issues in maintenance management like Reliability, Availability and Maintainability concepts, safety and environmental aspects and also human resource dimensions in maintenance management, and also know the maintenance management audit, and able to demonstrate the knowledge in organizational set ups.</p> <p>CO4: Get acquaint with the integrated maintenance systems like spare parts maintenance through inventory analysis, waste management, maintenance effectiveness, and able to employ the knowledge in making proper decisions in respective areas.</p> <p>CO5: Learn about advanced techniques and trends in maintenance management including Turnaround Maintenance, concept of Tero-Technology, applications of Computers in Maintenance Management, Industry 4.0 (Digital Enterprise, The</p>
<p>MBA – 406: PROJECT WORK</p>	<p>CO1: Identify several situations in the select organization amenable to carry Project Work; able to formulate objectives and hypothesis for the project study undertaken; Conduct an extensive review of literature to defend the topic selected; Collect real time data, code and classify data; Analyze data using various statistical tools and techniques; Write inferences, conclusions and recommendations for improvements related to the study undertaken.; And prepare a final Project report with all the above mentioned elements and submit to the University.</p>

				MBA – 407: VIVA-VOCE	The students should be able to prove their alertness and professional competence in the project study undertaken; defend on the methodology adopted by them to carry out their project work, and also defend on the findings drawn and suggestions on the selected topic; able to show good communication skills and depict confidence in their presentation to help them to become good administrators.
39	MBA(HH CM)	<p>On successfully completing the Programme the students should be able to:</p> <p>PO1: Acquire an understanding of the concepts, theories, processes, functions, laws, tools and techniques and practices relating to the administration of the health care organizations and to health care delivery systems.</p> <p>PO2: Demonstrate leadership, communication and relationship management skills for managing a health care organization.</p> <p>PO3: Apply the principles, methods, tools/ techniques relating various disciplines including finance,</p>	<p>PSO1: Apply the knowledge of General Management, Organizational Behaviour, Economics, Accounting, Finance, Marketing, HR, Quantitative Techniques, Operations Research, Strategic Management, etc., to identify and solve complex problems in Health Care Organizations (HCOs).</p> <p>PSO2: Employ the knowledge gained through the study of Hospital Planning and Operations Management and other related courses in planning and designing the HCOs by following the standards, rules and regulations established by various regulatory bodies, laws, etc.</p> <p>PSO3: Initiate measures to follow patient-centered approach in HCOs to offer quality services at competitive prices, in addition to taking various measures to assure Total Quality Management in the operations of HCOs.</p> <p>PSO4: Employ appropriate skills relating to the Information and Technology Systems, Health Care Data Analytics, materials management, management of drugs, equipment and technology, etc., for effective and efficient management of HCOs.</p> <p>PSO5: Follow the ethical principles and</p>	MBA (HHCM) – 101: MANAGEMENT AND ORGANIZATIONAL BEHAVIOUR	<p>After the successful completion of the course the students should be able to:</p> <p>CO1: Understand the concept, principles, functions of management, the evolution of management thought, importance and transition factors of hospital management, the concept, principles, dimensions of CSR and able to initiate measures for implementation various theoretical concepts in the management of Health Care Organizations (HCOs).</p> <p>CO2: Learn in detail about Planning, Decision-Making and Management by Objectives, various concepts relating to Organizing like Organizational Structure, Departmentation, Span of Control, Delegation of Authority, etc., and apply the concepts, process, skills, etc., in practice.</p> <p>CO3: Know the types, styles, and theories of leadership, process of controlling, various methods of control, the concept, principles, and techniques of co-ordination and able to apply the knowledge in their profession.</p> <p>CO4: Acquire knowledge about the concepts of Organizational Behavior, perception, values, work dynamics, conflict management, stress, various models of OB, factors affecting perception, sources and types of conflicts, sources of stress, stress management techniques, etc., and able to design / execute appropriate measures to resolve the issues.</p> <p>CO5: Gain knowledge about the concepts of organizational culture, organizational climate, change management process, reasons for resistance to change, contemporary issues in OB like the managerial, environmental, workplace and global challenges related to HCOs and able to demonstrate the knowledge in real life situations.</p>

<p>accounting, marketing, economics, management, information technology, quantitative methods, operations research, strategic management, etc., for successful administration of health care organizations.</p> <p>PO4: Apply management principles and processes for making judicious/rational managerial decisions.</p>	<p>standards while dealing with different issues like medico-legal cases, confidentiality of patient information, clinical research, etc.</p> <p>PSO6: Handle emergency situations / disasters carefully; Comply with the legal provisions established by various laws concerned, follow the rules, regulations and standards spelt out by various regulatory authorities, including accreditation bodies; and Communicate effectively with different stakeholders of health care sector and act as a liaison between various stake holders in a health care setups.</p> <p>PSO7: Able to take required care and measures while handling the health care wastes, while dealing with medical tourists, while counseling the clientele on insurance and other issues.</p> <p>PSO8: Become more practical-oriented with the</p>	<p>MBA (HHCM) – 102: STATISTICS FOR MANAGEMENT</p>	<p>CO1: Know the concepts and importance of statistics in business applications, data collection methods, descriptive statistics like measures of central tendency, measures of variation and skewness which find their application in statistical analysis of data.</p> <p>CO2: Understand the concepts of correlation, regression, time series helps the health care administrator to focus on relation analysis and for predicting future trends.</p> <p>CO3: Learn the concepts of probability, probability theories and probability distribution and able to identify the situations in health care where these concepts can be applied.</p> <p>CO4: Acquire knowledge for doing research and aid in performing hypothesis testing studies for effective and efficient decision making.</p> <p>CO5: Learn the importance of demographic studies, population explosion, trends, population statistics, vital statistics, get familiarity on national health policy, national and international health programmes and able to use the knowledge in their profession</p>
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knowledge gained through hospital visits, project works, internship, etc., underwent by them as part of their studies.

<p>MBA (HHCM) – 103: HOSPITAL PLANNING & OPERATIONS MANAGEMENT</p>	<p>CO1: Understand the history, evolution, classification, changing concepts of HCOs, concept and role of Operations Management in HCOs, various approaches in health care management, role of hospitals in health care management and able to apply the knowledge in practice.</p> <p>CO2: Learn the basics of hospital planning, architectural concepts, and also learn in detail about designing of facilities relating to out-patient, day-care, emergency and casualty services and able to apply the knowledge in designing health care facilities.</p> <p>CO3: Know in detail about the hospital planning and architectural aspects relating to in-patient, ICU, operation theatre services and able to apply the knowledge in designing health care facilities.</p> <p>CO4: Acquire a detailed knowledge about the hospital planning and architectural aspects relating to Diagnostics and Therapeutic Services, support and utility services, process flow of support services and able to apply the knowledge in designing and improving health care facilities.</p> <p>CO5: Learn various operations management concepts relevant to the day to day processes of a hospital like productivity, work study, value analysis, outsourcing, and able to employ the knowledge and skills in their career.</p>
<p>MBA (HHCM) - 104: FINANCIAL ACCOUNTING</p>	<p>CO1: Understand the financial accounting principles, accounting standards which govern the accounting process, International Financial Reporting Standards, the procedure of maintaining books on double entry system, etc., and able to apply the knowledge in practice.</p> <p>CO2: Acquire skills relating to process of preparing, summarizing and reporting the financial information in the form of financial statements, viz., Trial Balance, Profit & Loss Account and Balance Sheet process of for a sole proprietor and able to employ the skills in their career.</p> <p>CO3: Gain knowledge on maintaining of books by non-trading organizations like Receipts & Payments Account, Income & Expenditure Account, Balance Sheet, and the provisions of the Companies Act, 2013 with respect to the preparation of company final accounts and able to demonstrate the knowledge in their profession.</p>

<p>MBA (HHCM) – 105: COMMUNICATION SKILLS IN HEALTH CARE MANAGERS</p>	<p>CO1: Understand meaning, process, types and channels of communication, identify the barriers to communication, know how to overcome them and able to analyze the situations for effective communication.</p> <p>CO2: Learn about Technology-Enabled Communication like mobile conversation social media, web-based communication, visual and mass media communication, acquire presentation and reporting writing skills and able to employ various technologies and communication skills for effective communication.</p> <p>CO3: Appraise the importance of soft skills in communication including interpersonal communication skills, Cross Cultural Communication, end-of life communication, understand Persuasive Communication, and able to apply the skills for effective communication in practical health care settings.</p>
<p>MBA (HHCM) –106: HUMAN BIOLOGY AND MEDICAL TERMINOLOGY</p>	<p>CO1: Know the basic concepts in Anatomy and Physiology, classification of Anatomy, various terms used in Anatomy & Physiology, basic concepts of various organ systems in the human body and their functions and able to use the knowledge as health care professionals.</p> <p>CO2: Understand the basic concepts in various Human Biological sciences like Microbiology, Immunology, Pathology and Human Genetics, concepts of nutrition, essential nutrients, meaning and types of Malnutrition, main provisions of the National Nutrition Policy and able to interpret the knowledge in their career.</p> <p>CO3: Learn the basic medical terminologies and commonly used abbreviations in medical terminology and able to use them to communicate effectively.</p>

MBA (HHCM) – 107: EPIDEMIOLOGY AND HEALTH CARE POLICY	CO1: Gain knowledge about the concept of epidemiology, disease causation, common diseases, assessment of environmental risks and able to illustrate such knowledge in their career. CO2: Understand various economic systems, the impact of LPG on Indian health care system, concept of human development, etc., and able to appraise their importance in the administration of health care organizations. CO3: Learn about global health care policies like MDG, SDG, Indian health care policies like NUHM, NRHM, recent policy initiatives such as HLEG and universal health coverage, and able to interpret them in the administration of health care organizations.
MBA (HHCM) – 108: HEALTH CARE ORGANIZATION VISITS	CO1: Gain basic knowledge on hospitals structure, its importance, location, size of the hospital, manpower strength, timings, materials management, etc.; Understand the nuances of practical Hospital Management from their collective learning experiences and correlate them to the theoretical concepts; Obtain a sound knowledge on the clinical and non-clinical process flows of a health care facility which helps an upcoming hospital manager in decision making process. Also gets insights about the administration activities of a hospital; Acquire hands on experience on the practical concepts of hospital administration which in turn facilitates the hospital management students to identify themselves in the shoes of hospital administrator; Work both as an individual and a team member and also as a leader when drafting the report, preparing the presentation and identify the pros and cons of the visited hospitals and provide intellectual suggestions.

MBA (HHCM) – 201: HUMAN RESOURCE MANAGEMENT	CO1: Familiarize with the meaning, objectives and functions of HRM in HCOs, qualities of an efficient HR Manager, HR Policies, strategic Human Resource Management, the concept of Human Resource Planning and the factors affecting, the concepts of Job Analysis, Job Description and Job Specification, various aspects relating to recruitment and selection, and able to use the knowledge for effective HR management of HCOs. CO2: Understand the concept and process of performance management, methods of performance appraisal, factors affecting career development, various aspects of training and development, the concepts of motivation, compensation, remuneration, theories of motivation, recent trends in compensation management and able to apply the knowledge in practice. CO3: Know about the importance of employee welfare and safety, types of employee welfare activities, various statutory and non-statutory welfare provisions, the concepts of discipline and indiscipline, disciplinary procedure, various emerging trends in HRM like work-life balance, HR Analytics, employee engagement etc., and able to use and interpret the knowledge for effective HR management of HCOs.
MBA (HHCM) – 202: OPERATIONS RESEARCH	CO1: Acquire basic knowledge on Operation Research (OR) models, applications of OR, Linear Programming Problems, Integer, Goal and Dynamic Programming and able to apply them in optimizing resources and decision making. CO2: Understand the concepts of Assignment and Transportation Problems and able to apply these concepts to optimally allocate resources of men, time, money etc. CO3: Learn the concepts and the use of Queuing Theory, Game Theory, Simulation and able to introduce these concepts in real life situations. CO4: Gain knowledge on Networking Techniques and Decision Theory in order to determine the minimum time for completing a project and able to analyze managerial decision problems for achieving optimization objective.

<p>MBA (HHCM) – 203: PACIENT CARE MANAGEMENT</p>	<p>CO1: Understand the concept, principles, benefits of patient care management, rights and responsibilities of patients, concept, types, models of and techniques to change patient behaviour, types, process of patient counseling, etc., and able to take measures for better patient-centered management in HCOs. CO2: Learn various aspects relating to patient safety like risks to patient safety, patient safety standards and able to take necessary actions to correct such problems as per the standards. CO3: Acquire thorough knowledge on the patient classification system, implementation of case mix, complaint management and managing patient feedback, and able to use the knowledge to handle difficult situations. CO4: Know in detail various aspects relating to clinical and medical records audit, challenges and trends in patient care management and able to not only follow appropriate audit procedures but also analyze and implement techniques to face such challenges / trends. CO5: Demonstrate knowledge of practical problems in patient care management.</p>
<p>MBA (HHCM) - 204: FINANCIAL MANAGEMENT FOR HEALTH CARE ORGANIZATIONS</p>	<p>CO1: Understand the concept and importance of finance, role of a finance manager, meaning of financial planning and forecasting, in addition to learning in detail about the time value of money, capital budgeting, etc., and able to take effective decisions in related finance areas. CO2: Learn about sources of finance, meaning, pattern, determinants of capital structure, cost of capital, leverages, various aspects relating to dividend decisions, and able to take most vital decisions in finance area in HCOs. CO3: Understand the concept of working capital, its estimation, management of inventory, accounts receivables and cash and able to use the knowledge to manage these areas effectively by making appropriate decisions.</p>

<p>MBA (HHCM) – 205: HEALTH ECONOMICS</p>	<p>CO1: Understand the concept of economics, health economics, its importance, functions and scope, the inter-relationship between health and economic development, and able to demonstrate the knowledge in their profession.</p> <p>CO2: Know about the demand and supply for health care, valuation of health, economics of chronic diseases, and able to use available resources for maximizing health benefits.</p> <p>CO3: Acquire knowledge about the concept of market structure, causes of market failure, market interventions, major health care models prevailing across the world and able to determine prices under different market conditions, adopt appropriate health care models, etc.</p>
<p>MBA (HHCM) – 206: HEALTH CARE SERVICES MARKETING</p>	<p>CO1: Understand in detail about the marketing concept, scope and significance of marketing in Domain Industry, role marketing and Customer Relationship Management in health care business and able to explore for themselves the role of a marketing manager and the boundaries of marketing.</p> <p>CO2: Learn various market research skills for designing important marketing strategies like segmentation, positioning, targeting, and organizing for health care firms, models of Consumer Buying Behavior and able to illustrate such skills in their profession.</p> <p>CO3: Familiarize with the health care product concepts and decisions, health care services pricing policies and strategies, distribution channels, place strategies, Integrated Marketing Communication, etc., and able to interpret them for designing different strategies in marketing area for HCOs, employ the marketing communication skills relevant to the corporate world, etc.</p>

MBA (HHCM) – 207: HEALTH CARE INFORMATION AND TECHNOLOGY SYSTEMS	CO1: Gain the basic knowledge of information technology, importance of technology driven devices like computers; concepts of data and information, role of Information technology in health care, and able to use the knowledge in their career. CO2: Develop knowledge on the detailed concepts of Hospital Information System (HIS) applications, electronic medical records and its functions, administrative applications that facilitate the decision making process of health care managers and able to apply the knowledge in practical fields. CO3: Understand the applications and usability of clinical information systems of a health care facility, concepts of medical coding with a focus on the latest technologies, management of information, its security, digital health concepts and able to execute the knowledge in hospital administration. CO4: Obtain a sound knowledge on System Development Life Cycle (SDLC) including system analysis, design, development, implementation and maintenance, and legal aspects of digital health and medical records and able to use the knowledge in their professional career. CO5: Acquire hands on experience on the practical concepts of Microsoft Office tools for documentation, analysis and presentation and also the concepts of browsing and mailing in health care research.
MBA (HHCM) – 208: MEDICAL TOURISM	CO1: Understand the concept, types of medical tourism, types of medical tourists, products and packages available in medical tourism, alternative systems of medicine, etc., and able to show competence in designing and implementing medical tourism products and packages. CO2: Understand the legal and ethical aspects of medical tourism, promotional strategies relating to medical tourism, medical tourism in India, exigencies and medical tourism and able to appreciate how the legalities and other external factors will influence the industry and make decisions accordingly.

<p>MBA (HHCM) – 301: SUPPLY CHAIN MANAGEMENT</p>	<p>CO1: Understand the concepts of Supply Chain, functions, principles and components of Supply Chain Management (SCM), Value Chain Delivery Systems for SCM, comprehend different types of supply chain, trends in health care supply chain, different types of business strategies related to SCM and able to apply the knowledge in making effective decisions in SCM of HCOs.</p> <p>CO2: Get deeper knowledge about the meaning of Logistics, its role in SCM, various types of Logistics, costs related to Logistics, concepts of Outsourcing, Logistical Competitive Advantage, transportation management systems, warehouse management system, different types of materials handling techniques in HCOs, role of IT in SCM and Logistics Management and able to apply the knowledge in their profession.</p> <p>CO3: Learn various skills relating to materials management like material requirement forecasting techniques, make or buy decisions, Material Requirements Planning, parameters of purchasing, computerized purchasing system, purchasing system at Government Organizations, concept of e-procurement, types and procedure of purchasing, purchase orders, etc., and able to employ the skills for effective materials management of HCOs.</p> <p>CO4: Acquire knowledge about the concept, importance and challenges related to inventory management, inventory control, classification of inventory, costs associated with inventory, concepts of lead time and buffer stock, various methods of inventory management, MBASIC analysis, Economic Order Quantity, Just in Time, Vendor Managed Inventory and able to illustrate the knowledge in real life situations.</p> <p>CO5: Know in detail about stores management including the types and functions of stores in HCOs, duties of a store manager, stores ledger and manual, bin system, classification, codification</p>
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<p>MBA (HHCM) – 302: TOTAL QUALITY MANAGEMENT & ACCREDITATION</p>	<p>CO1: Gain the basic knowledge on health care quality and its evolution, concepts and role of quality management in the broad health care scenario, the principles of quality control, quality assurance, quality improvement and deployment of quality as a function and able to appraise their importance in maintaining quality of HCOs.</p> <p>CO2: Get deeper knowledge about the quality management tools ranging from basic to advanced level for improving processes, strategic approaches to quality management in health care and hospitals, Systems, Six Sigma and Lean Management approaches to Total Quality Management (TQM), and able to choose appropriate tools / techniques / approaches in practical field,</p> <p>CO3: Know the role of quality in achieving operational excellence and business development of HCOs, role of the hospital administrator in achieving operational excellence, use of quality as a measurement tool, and able to use appropriate tools in optimal utilization of resources to improve efficiency of HCOs, etc.</p> <p>CO4: Obtain a sound knowledge on accreditation in health care industry, role of various organizations like NABH, JCI, etc., functioning at local, national and international level, in accreditation of HCOs, and able to maintain standards and norms prescribed by the accreditation organizations in practical field.</p> <p>CO5: Know the concepts of empanelment, certifications, and their relationship with health care quality, the latest trends in health care quality and able to initiate measures for the empanelment / certification of the HCOs and introduce new techniques / processes that may lead to TQM of HCOs.</p>
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<p>MBA (HHCM) – 303: DRUGS, EQUIPMENT & TECHNOLOGY MANAGEMENT</p>	<p>CO1: Understand the meaning of drug, discovery and development of drugs, use of drugs, processes flows, laws governing the research, development, and licensing of medicines and able to follow appropriate procedures in the discovery, use of drugs, etc.</p> <p>CO2: Gain an in-depth knowledge about drug management including planning, procurement, storage and dispensation of drugs, inventory management of drugs, and able to apply the knowledge in their career.</p> <p>CO3: Gain understanding of equipment management including, planning, procurement, maintenance, commissioning and de-commissioning of equipment and demonstrate the knowledge in their profession as health care administrators.</p> <p>CO4: Learn about different types of technologies innovated and introduced in health care field, role of wireless technology in health care management, present trends in health care technology and able to identify appropriate technologies can be used in HCOs.</p> <p>CO5: Remember the application of technology in health care services like clinical specialties, support services, and the know the future trends in health care technology and able to illustrate the knowledge on use of newer technologies in various clinical and support service areas of health care industry.</p>
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<p>MBA (HHCM) – 304: COST AND MANAGEMENT ACCOUNTING</p>	<p>CO1: Understand the concepts of costing, cost accounting, cost accountancy, cost control, methods and techniques of costing, procedure for preparation of cost sheet, methods of costing which are applicable to health care organizations and able to apply the knowledge in their profession.</p> <p>CO2: Learn about various techniques of costing, viz., marginal costing, budgeting and budgetary control, and standard costing and able to apply various techniques of costing including Activity based costing for managerial decision making.</p> <p>CO3: Get an in-depth knowledge about the meaning, role, tools and techniques of management accounting, analysis and interpretation of financial statements, methods and techniques of financial statements analysis, various ratios used in financial statement analysis, preparation and presentation of cash flow statement, and able to analyze and interpret financial information specific to the health care setting by using different management accounting tools.</p>
<p>MBA (HHCM) - 305: STATUTORY AND REGULATORY COMPLIANCE</p>	<p>CO1: Get an overview of various regulatory bodies in HCOs, legal issues in patient care, ethical aspects like medical negligence and its legal implications, professional codes of conduct and able to follow the legal provisions and standards in the management of HCOs.</p> <p>CO2: Know the laws that govern the setting up and running of a hospital, the laws that safeguard the employees and the laws that help in controlling environmental pollution, and able to comply with the provisions of respective laws.</p> <p>CO3: Acquire knowledge about the public health issues, unethical activities in medical practice and emerging issues such as stem cell therapy, genetic research, telemedicine and robotic surgery, and able to adhere to the legal and ethical issues concerned</p>

MBA (HHCM) – 306: HOSPITAL RISK AND DISASTER MANAGEMENT	CO1: Gain understanding about different risks in hospitals including Nosocomial infections, Occupational Hazards, issues relating to fire safety in HCOs and able to take appropriate measures to control and prevent such risks. CO2: Learn the process of Disaster Management in hospitals, authorities concerned to manage disasters, principles and process relating to the emergency plans in hospitals, emergency manual for hospitals, and able to prepare and implement Emergency Plans and Emergency Manuals for effective management of disasters.
MBA (HHCM) – 307: STRATEGIC MANAGEMENT	CO1: Understand the scope and significance of strategic management process, its approaches in Domain Industry, concept and the role a strategist plays in health care business, concepts of strategic intent and the boundaries of an organization internally and externally and various techniques of analysis, and able to use conduct environmental and organizational appraisal of HCOs with the help of different methods / techniques learnt. CO2: Get a deeper understanding about the concepts of strategy formulation for health care firms, various strategies for different types of firms, global strategies, and gain insights on strategy analysis and choice, and able to design, analyze and choose various strategies suitable to the HCOs. CO3: Learn various issues relating to the implementation, evaluation and control of strategies, interpret them for designing various futuristic strategies for health care business firms, institutionalizing the strategies, and case study solving approach in the real time health care business scenarios and able to use the knowledge in real situations.
MBA (HHCM) – 308: ETHICS IN HEALTH CARE MANAGEMENT	CO1: Understand the concepts of business ethics, work ethics and human value alongside gaining knowledge on medical ethics that govern the health care profession and able to implement the concepts in HCOs. CO2: Gain insights into many practical ethical issues related to management as well as practice of medicine that a health care professional will come across as a part of their job like ethical issues in patient care management, ethical culture in organizations, role of ethics in hospital management and able to apply the ethical principles and practices in the management of HCOs.

<p>MBA (HHCM) – 401: HEALTH CARE ANALYTICS</p>	<p>CO1: Understanding the meaning, essentials, types, tools and challenges of health care analytics, including challenges in capturing as well as analyzing the data, and able to appraise the role of health care analytics in their profession.</p> <p>CO2: Know various sources of data and its interpretation in HCOs, including out-patient data indicators, in-patient data indicators, emergency unit data indicators, operation theatre and other data indicators and able to analyze, interpret and use the data properly.</p> <p>CO3: Gain an in-depth knowledge about the Data Mining in Health Care, that is about the meaning and process of data mining, sensor data in medical informatics, non-clinical data applications, health care cost prediction, and able to illustrate the knowledge in their career.</p> <p>CO4: Learn skills about the applications of health care analytics, trends and challenges in health care analytics and able to apply</p>
<p>MBA (HHCM) – 402: ENTREPRENEURSHIP AND HEALTH CARE CONSULTANCY</p>	<p>CO1: Understand the concept of entrepreneurship, functions of entrepreneur, difference between entrepreneurship and intrapreneurship, methods of generating business ideas, importance of feasibility study, various types of feasibility studies and able to generate few business ideas and prepare a feasibility study report.</p> <p>CO2: Acquire detailed knowledge about the concept of Organizational plan, importance of marketing research, marketing plan, economic and financial plan, technical and operational plan for new venture, and able to use the knowledge for starting a new venture / consultancy.</p> <p>CO3: Learn about the short term and long term sources of finance, the intellectual property rights, concept of licensing and franchising, need and importance of health care consultancy, client-consultant relationship, the consulting process, etc., and use the knowledge for starting a new venture / consultancy.</p>

MBA (HHCM) – 403: HEALTH INSURANCE	<p>CO1: Understand the concept of risk, uncertainty, principles of insurance, the various managed care models, the regulatory framework governing the insurance market and able to illustrate the knowledge in practice.</p> <p>CO2: Know the process of designing and pricing of health insurance products, elements of insurance marketing, different types of health insurance products, hospitalization indemnity products in India and able to suggest appropriate products to the clientele.</p> <p>CO3: Know the most vital operations in health insurance like underwriting and claim management, in addition to learning about the role of IT in health insurance, social health insurance, and able to demonstrate the knowledge in their career.</p>
MBA (HHCM) – 404: HEALTH CARE WASTE MANAGEMENT	<p>CO1: Understand the classification and different categories of Health Care Waste, criteria and regulations for development of Health Care Waste Treatment and Disposal, risks related to health care waste, and able to comply with the regulations related to HCWM and also take measures to prevent risks relate to HCWM.</p> <p>CO2: Gain knowledge on collection, transportation, disposal and treatment of Health Care Waste, Radioactive and Cytotoxic Wastes, facilities required for health care waste treatment and able to take measures for proper management and treatment of different health care wastes.</p>
MBA (HHCM) – 405: INTERNSHIP	<p>CO1: Gain the basic knowledge on healthcare organization through vision, mission, structure, general functions, policies & procedures and collateral activities; Acquire immense knowledge on problem identification, study and collect relevant information, usage of statistical tools, analyze the information and provide feasible solutions; Illustrate the acquired knowledge through record writing by mentioning the facts, contents, figures and analytical description of the same; Know how to adjust with and work harmoniously in teams, share information with executives/ employees and participate in meetings meaningfully; Maintain punctuality, discipline, regularity and adherence to rules and regulations of the selected healthcare organization; Make ready oneself for the real time job opportunity in the broad spectrum of health care industry.</p>

				MBA (HHCM) – 406: PROJECT REPORT	CO1: Identify several situations at the Health Care Organizations amenable to carry Project work; able to formulate objectives and hypothesis for the project study undertaken; Conduct an extensive review of literature to defend the topic selected; Collect real time data, code and classify data; Analyze data using various statistical tools and techniques; Write inferences, conclusions and recommendations for improvements related to the study undertaken.; And prepare a final Project report with all the above mentioned elements and submit to the University.
				MBA (HHCM) – 407: VIVA VOCE	The students should be able to prove their alertness and professional competence in the project study undertaken; defend on the methodology adopted by them to carry out their project work, and also defend on the findings drawn and suggestions on the selected topic; able to show good communication skills and depict confidence in their presentation to help them to become good health care administrators.
40	B.Ed(Spl. Edn)	"1. Gains knowledge about technology in educating children with ID its various approaches and modes. 2. Explains the nature of ICT, its basis, development and use. 3. Understands the computer programme and software for the benefit of children with ID. 4. Gains knowledge about skills and	2. Understands the concept and nature of adaptive technology and explain underlying principles and techniques. 3. Gains knowledge about technologies for print-access for children with visual impairment. 4. Explains the use different technologies for teaching low vision children as also various school subjects. 5. Gains knowledge about of computer-based teaching-learning processes"	Human Growth and Development	1. Understands the development of infancy, childhood and adolescence. 2. Explains developmental variations among the children 3. Understands adolescence, adulthood period. <u>4. Explains different factors influencing child development</u>
				Contemporary India and Education	1. Understands the Philosophy of Education. 2. Explains educational system in the context of Modern Ethos. 3. Understands the concept of diversity 4. Understands trends, issues, and challenges faced by the Contemporary Indian Education in global context

about skills and competencies in use of Punarjani and C-DAC and integrate technology for instructions and inclusion.

5. Understands the technology for developing lesson plan and adapted assistive devices."

"1. Understands the concept and nature of educational technology and ICT to the education of children with visual impairment.

<p>Learning Teaching & Assessment</p>	<ol style="list-style-type: none"> 1. Explains the theories of learning and intelligence and their applications for teaching children 2. Understands learning process, nature and theory of motivation 3. Explains the stages of teaching and learning and the role of teacher 4. Gains knowledge about Situate self in the teaching learning process 5. Explains the scope and role of assessment in teaching learning process for educational set up towards enhanced
<p>Introduction to Sensory Disabilities</p>	<ol style="list-style-type: none"> 1. Gains knowledge about different types of sensory impairments and its prevalence & describe the process of hearing & implications of various types of hearing loss. 2. Understands the issues & ways to address challenges in educating students with hearing loss. 3. Explains the nature, characteristics & assessment of students with low vision & visual impairment. 4. Gains knowledge about educational placement and curricular strategies for students with low vision & visual impairment. 5. Understands the impact of deaf blindness&practices for functional development.

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<p>Cross Disability & Inclusion HI/MR/VI</p>	<ol style="list-style-type: none"> 1. Gains knowledge about inclusive education & the progression from segregation towards valuing & appreciating diversity in inclusive education. 2. Understands the national & international policies & frameworks facilitating inclusive education. 3. Explains the skills in adapting instructional strategies for teaching in mainstream classrooms. 4. Understands the inclusive pedagogical practices & its relation to good teaching. 5. Explains the strategies for collaborative working and stakeholders support in implementing inclusive education
<p>Inclusive Education</p>	<ol style="list-style-type: none"> 1. Understands the characteristics and types of learning disability. 2. Explains the tools, areas of assessment and apply intervention strategies to enhance learning. 3. Understands the characteristics and types of Intellectual disability. 4. Understands the tools, areas of assessment and prepare and apply intervention strategies for independent living. 5. Understands the characteristics and types of Autism Spectrum Disorder. 6. Understands the tools, areas of assessment and apply intervention strategies.

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<p>Introduction to Neuro Developmental Disabilities</p>	<ol style="list-style-type: none"> 1. Gains knowledge about Locomotor disabilities such as Cerebral Palsy, Amputees, Polio, Leprosycured, Muscular dystrophies, Neural and spinal defects and Multiple disabilities. 2. Explains the about the persons with Locomotor disabilities and Multiple disabilities. 3. Understands the therapeutic and programme for the persons with Locomotor disabilities and Multiple disabilities and to refer for medical intervention 4. Gains knowledge on educational programme and functional activities for the persons with Locomotor disabilities and Multiple disabilities.
<p>Introduction to Loco motor & Multiple Disabilities</p>	<ol style="list-style-type: none"> 1. Understands the techniques for early identification of hearing loss in children. 2. Gains knowledge about the audiological assessment and its relevance in education. 3. Explains the communicative and language related needs with the understanding of its development and assessment. 4. Gains knowledge about the assessment of various processes involved in production of speech. 5. Understands the educational assessment and analyse various educational needs of individuals with hearing impairment

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<p>Assessment and Identification of Needs</p>	<ol style="list-style-type: none"> 1. Understands the historical perspective, nature and needs and characteristics of persons with Intellectual Disability. 2. Gains knowledge about the procedures, areas and approaches of assessment and their relevance. 3. Understands the development and adaptive behavioural assessment and assessment tools at pre school level. 4. Gains knowledge about the assessment tools for independent living, provisions and schemes for vocational skills 5. Understands the different types of family needs their assessment and implications for extending support to their
<p>Assessment and Identification of Needs</p>	<ol style="list-style-type: none"> 1. Gains knowledge about structure of eye and common eye defects. 2. Understands the etiology of visual impairment. 3. Understands the implications of visual impairment and identify their needs. 4. Gains knowledge about identify and assess children with visual impairment. 5. Understands the needs and develop skills to assess children

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<p>Assessment and Identification of Needs</p>	<p>"1. Understands the curriculum and importance of designing it for children with hearing impairment in the context of 21st Century learning skills</p> <p>2. Explains the literacy skills of reading and writing in children with hearing impairment.</p> <p>3. Gains knowledge about adaptation and decide suitable adaptation and undertake it</p> <p>4. Understands the need for curricular evaluation and describe the tools and methods for</p>
<p>Curriculum Designing ,Adaptation and Evaluation</p>	<p>1. Understands the curriculum and importance of designing it for children with hearing impairment in the context of 21st Century learning skills</p> <p>2. Explains the literacy skills of reading and writing in children with hearing impairment.</p> <p>3. Gains knowledge about adaptation and decide suitable adaptation and undertake it</p> <p>4. Understands the need for curricular evaluation and describe the tools and methods for</p>

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Curriculum Designing ,Adaptation and Evaluation	<p>1. Gains knowledge about curriculum, principles, designing, domains and curriculum evaluation.</p> <p>2. Understands the importance of early childhood special education, its domains and school readiness programme and their implications.</p> <p>3. Gains knowledge About curriculum domains at secondary, prevocational and vocational level and understand its implications.</p> <p>4. Explains the different strategies for curriculum adaptation,accommodation, modification and their significance.</p> <p>1. Understands the effective use of different techniques.</p>
Curriculum Designing, Adaptation and Evaluation	<p>1. Understands the curriculum, its types and explain its importance.</p> <p>2. Explains the techniques of teaching functional academic skills.</p> <p>3. Gains knowledge About importance and components of independent living skills.</p> <p>4. Understands the curricular adaptations with reasonable accommodations.</p> <p>5. Explains the physical education and creative arts activities can be adapted for the children with visual impairment</p>
Disability Specialization HI/MR/VI	

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<p>Pedagogy of Teaching Physical Science</p>	<ol style="list-style-type: none"> 1. Understands the role of Physical science in day to day life and its relevance to modern society. 2. Understands the aims and objectives of teaching Physical science at school level. 3. Gains knowledge About Demonstrate and apply skills to select and use different methods of teaching the content of Physical sciences. 4. Gains knowledge About competencies of planning for teaching Physical sciences, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences. 5. Explains the skills to design and use various evaluation tools to measure learner achievement in Physical sciences.
<p>Pedagogy of Teaching Biological Science</p>	<ol style="list-style-type: none"> 1. Understands the role of Biological science in day to day life and its relevance to modern society. 2. Understands the aims and objectives of teaching Biological science at school level. 3. Gains knowledge About Demonstrate and apply skills to select and use different methods of teaching the content of Biological sciences. 4. Gains knowledge About Demonstrate competencies of planning for teaching Biological sciences, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences. 5. Explains the skills to design and use various evaluation tools to measure learner achievement in Biological sciences.

Pedagogy of Teaching Social Studies	<p>1. Understands the concept, nature and scope of social science.</p> <p>2. Understands the competencies for designing unit and lesson plans, as well as tools of evaluation for social science teaching.</p> <p>3. Gains knowledge About skills in preparation and use of support materials for effective social science teaching.</p> <p>4. Gains knowledge About the ability to organize co-curricular activities and community resources for promoting social science learning.</p>
Pedagogy of Teaching Mathematics	<p>1. Understands the nature of Mathematics and its historical development with contribution of Mathematicians.</p> <p>2. Understands the aims and objectives of teaching Mathematics at school level.</p> <p>3. Gains knowledge About Demonstrate and apply skills to select and use different methods of teaching Mathematics.</p> <p>4. Gains knowledge About Demonstrate competencies of planning for teaching Mathematics, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences.</p> <p>5. Explains the skills skills to design and use various evaluation tools to measure learner achievement in Mathematics</p>
Pedagogy of Teaching Telugu	<p>1. Understands the principles of language teaching, and evolution and trends in Telugu literature.</p> <p>2. Explains the instructional plan in Telugu.</p> <p>3. Gains knowledge Adapt various approaches and methods to teach Telugu language.</p> <p>4. Understands the Use various techniques to evaluate the achievement of the learner in Telugu</p>

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<p>Pedagogy of Teaching English</p>	<ol style="list-style-type: none"> 1. Understands the principles of language teaching, and evolution and trends in English literature. 2. Explains the instructional plan in English. 3. Gains knowledge Adapt various approaches and methods to teach English language. 4. Understands the Use various techniques to evaluate the achievement of the learner in English
<p>Pedagogy of Teaching Hindi</p>	<ol style="list-style-type: none"> 1. Understands the principles of language teaching, and evolution and trends in Hindi literature. 2. Explains the instructional plan in Hindi. 3. Gains knowledge Adapt various approaches and methods to teach Hindi language. 4. Understands the Use various techniques to evaluate the achievement of the learner in Hindi .

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<p>Intervention and Teaching Strategies</p>	<ol style="list-style-type: none"> 1. Gains knowledge About early intervention of infants and children withHearing Impairment. 2. Explains the need, stages and importance of auditory listening & Speech 3. Understands the approaches to teaching, strategies for speech intervention. 4. Explains the methods, techniques and options to facilitate language and communication. 5. Gains knowledge about concept, principles and practices, linkages and outcomes of educational
<p>Intervention and Teaching Strategies</p>	<ol style="list-style-type: none"> 1. Gains knowledge about, planning and using intervention appropriately. 2. Understands the importance of developing IEP, acquire the required competencies for its development, implementation and evaluation. 3. Gains knowledge about basic learning and teaching ,acquire competency , appropriate teaching strategies. 4. Explains the nature and identification maladaptive behavior 5. Gains knowledge about of various therapeutics interventions, their objectives,

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Intervention and Teaching Strategies	<ol style="list-style-type: none"> 1. Understands the theoretical perspectives related to intervention & teaching strategies. 2. Gains knowledge about techniques of teaching Mathematics to visually impaired children. 3. Explains the competencies and skills for teaching science and assessment of the learners with special reference to children with visual impairment. 4. Understands the necessary skills for adapting TLM in social science and assessment of the learners with special reference to children with visual impairment. 5. Explains the process of assessment visual efficiency and
Disability Specialization HI/MR/VI	
Guidance and Counselling	<ol style="list-style-type: none"> 1. Gains knowledge about guidance and counseling in classroom situations. 2. Understands the process of development of self-image and self-esteem. 3. Explains the types and issues of counselling and guidance in inclusive settings.
Early Childhood Care & Education	<ol style="list-style-type: none"> 1. Understands the biological & sociological foundations of early childhood education. 2. Explains the systems approach and role responsibilities of interdisciplinary teams for early education of children with disabilities. 3. Gains knowledge about inclusive early education pedagogical practices

<p>Communication Based Rehabilitation</p>	<ol style="list-style-type: none"> 1. Understands the concept, principles and scope of community based rehabilitation. 2. Understands the strategies for promoting public participation in CBR. 3. Gains knowledge about methods for preparing persons with disability for rehabilitation within the community. 4. Explains the need-based training to persons with disabilities 5. Gains knowledge about role of government and global agencies in CBR.
<p>Braille and Assistive Devices</p>	<ol style="list-style-type: none"> 1. Gains knowledge about Braille, its relevance and some important functional aspects. 2. Understands the information on types and significance of different Braille devices. 3. Understands the types and significance of basic devices relating to Mathematics, Science, Geography and Low Vision on sources of their availability.
<p>Technology and Disability</p>	<ol style="list-style-type: none"> 1. Explains the various listening devices and describe ways of effective usage and maintenance. 2. Gains knowledge about basic exposure to state-of-the-art technology for management of various aspects of speech. 3. Understands the range of technological applications 4. Gains knowledge about the present and future technologies facilitating the education of children with hearing impairment. 5. Understands the different resources (financial & human) to obtain technology.

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Technology and Disability	<ol style="list-style-type: none"> 1. Gains knowledge about technology in educating children with ID its various approaches and modes. 2. Explains the nature of ICT, its basis, development and use. 3. Understands the computer programme and software for the benefit of children with ID. 4. Gains knowledge about skills and competencies in use of Punarjani and C-DAC and integrate technology for instructions and inclusion. 5. Understands the technology for developing lesson plan and adapted assistive devices.
Technology and Disability	<ol style="list-style-type: none"> 1. Understands the concept and nature of educational technology and ICT to the education of children with visual impairment. 2. Understands the concept and nature of adaptive technology and explain underlying principles and techniques. 3. Gains knowledge about technologies for print-access for children with visual impairment. 4. Explains the use different technologies for teaching low vision children as also various school subjects. 5. Gains knowledge about of computer-based teaching-learning
Psycho Social and Family Issues	<ol style="list-style-type: none"> 1. Understands the psycho social development of early childhood and role of family. 2. Gains knowledge about the family needs and find self-ready to support families for empowering the child with disability. 3. Explains the family involvement in educational programs.

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<p>Psycho Social and Family Issues</p>	<ol style="list-style-type: none"> 1. Understands the importance and role of family in rehabilitation of children with ID. 2. Explains the Psycho-social issues and their impact on rehabilitation on PwID, misconception and social practices and develop based approach. 3. Gains knowledge about involvement in rehabilitation process by forming parents self help group and parent association. 4. Explains the Adolescent related issues and challenges their implication for rehabilitation of PwIDs and to explore probable employment opportunities for them. 5. Gains knowledge about community and community participation and models, advantages/ / disadvantages of
<p>Psycho Social and Family Issues</p>	<ol style="list-style-type: none"> 1. Understands the effect of birth of a child with visual impairment on the family. 2. Understands the family and parental concerns related to their child with visual impairment from birth to adulthood. 3. Gains knowledge about parent community partnership in the rehabilitation of a person with visual impairment. 4. Explains the skills to empower families in meeting the challenges of having a child with visual impairment

Reading and Reflecting on Text	<ol style="list-style-type: none"> 1. Understands the current level of literacy skills of the self. 2. Explains the basic skills required to be active readers in control of own comprehension. 3. Understands the basic skills required to be independent writers understanding adequate intent, audience and organization of the content. 4. Understands the facilitate good reading writing in students across the ages. 5. Gains knowledge about reading writing as learning and occupational tools rather than a course tool
Drama and Art in Education	<ol style="list-style-type: none"> 1. Understands the art appreciation, art expression and art education. 2. Gains knowledge about implement facilitating strategies for students with and without special needs. 3. Explains the adaptive strategies of artistic expression. 4. Understands the art enhance learning.
Main Disability Special School	<ol style="list-style-type: none"> 1. Understands the nature and scope of O&M as also the O&M related responsibilities of the special teacher. 2. Gains knowledge about human guide techniques. 3. Understands the pre-cane and cane travel skills and devices. 4. Understands the importance and skills of training in independent living for the visually impaired.
Orientation and mobility for children with Visual Impairment	<ol style="list-style-type: none"> 1. Understands the nature and scope of O&M as also the O&M related responsibilities of the special teacher. 2. Gains knowledge about human guide techniques. 3. Understands the pre-cane and cane travel skills and devices. 4. Understands the importance and skills of training in independent living for the visually impaired.

				<p>Communication Options: Manual Options (Indian Sign Language)</p> <ol style="list-style-type: none"> 1. Understands the two manual options with reference to Indian special schools. 2. Understands the relevant issues like literacy, inclusion and training with reference to manual options. 3. Gains knowledge about manual options in the light of issues like language, culture and identify. 4. Understands the beginner level hands on skills in using manual options. 5. Explains the to learn and practice more skills leading to transition and placement
				<p>Vocational Rehabilitation & Transition to job Placement</p> <ol style="list-style-type: none"> 1. Gains knowledge about vocational education & its relevance for PWD's. 2. Understands the vocational assessment and make vocational training plan. 3. Explains the transition from School to job. 4. Understands the various avenues for job placement. 5. Gains knowledge about PWD's in making choice of vocational trades. 6. Understands the concept of independent living and assessment
				<p>Basic Research and basic Statistics</p> <ol style="list-style-type: none"> 1. Understands the concept and relevance of research in education and special education. 2. Gains knowledge about research process and acquire competencies for conducting a research. 3. Explains the suitable measures for data organization and analysis.
				<p>Cross Disability and Inclusion HI/MR/VI</p>
				<p>Other Disability Practical (Special School) HI/MR/VI</p>
				<p>Inclusive School Practical HI/MR/VI</p>

41	B.Ed	<p>To introduce In-service teacher trainees to the Bachelor of Education programme to equip them with the core - contents ; electives and methodology to strengthen the professional competencies among them secondary grade teachers. To develop necessary skills in learning the concepts and selection and organising of learning experiences.</p> <p>(2) To help teacher trainees acquaint themselves with the core concepts ; electives and methodology .</p>	<p>(1) Understand the different philosophical , psychological concepts . differentiate the different school of philosophy. Explains the Indian philosophical thought . Understands the implications of both Indian and western philosophy of education . appreciates the contribution of different philosophers to TE AND school education .</p> <p>(2) Understands the role of the different commissions came into existence and also to find various ways to implement the recommendations in schools and TE institutions.</p> <p>(3) Understands the learners growth and development ; individual differences ; learning , learning theories propounded by different psychologists. Differentiates the theories of learning based on their contribution .</p> <p>(4) Understands the concept of personality-leadership – adjustment ; mental health – role in day to day life – learning ; culture – the challenges faced during learning.</p> <p>(5) Understands the concepts of school and its role in organising school activities – explains the schools run by central govt ; state govt and private management . Understands institutional planning; the role of HM as leader, teacher, community member etc. The concept of Action Research. Understands the role of Environment in protection of human lives . Protection of environment ; sustainable development ; managing the disaster – and overcoming the disaster. Understands the different forms of Art-handicrafts -performing arts and explains how art can be learnt by organising skills . Understands the concept of Health and Physical education – Yoga. The Surya namaskaras and uses/ benefits of yoga poses.</p>	<p>Philosophical and Sociological Foundations of Education</p> <p>Learner, Learning and Teaching</p> <p>School Management, Leadership and Action Research</p> <p>Information and Communication Technology (ICT) for Teaching and Learning</p> <p>Environmental and Disaster Management Education</p> <p>Art and Drama Education</p> <p>Health and Physical Education and Yoga</p> <p>Contemporary Education in India</p> <p>Learning Assessment</p> <p>Guidance and Counselling</p> <p>Value and Peace Education</p> <p>Gender Studies</p>	<p>Understand the different philosophical , socialgical concepts . differentiate the different school of philosophy. Explains the Indian philosophical thought . Understands the implications of both Indian and western philosophy of education . appreciates the contribution of different philosophers to TE AND school education .</p> <p>Understands the learners growth and development ; individual differences ; learning , learning theories propounded by different psychologists. Differentiates the theories of learning based on their contribution .</p> <p>Understands the concepts of school and its role in organising school activities – explains the schools run by central govt ; state govt and private management . Understands institutional planning; the role of HM as leader, teacher, community member etc.</p> <p>Understands the role of Environment in protection of human lives . Protection of environment ; sustainable development ; managing the disaster – and overcoming the disaster</p> <p>Understands the different forms of Art- handicrafts -performing arts and explains how art can be learnt by organising skills . Understands the concept of Health and Physical education – Yoga. The Surya namaskaras and uses/ benefits of yoga poses.</p> <p>Understands the concept of Health and Physical education – Yoga. The Surya namaskaras and uses/ benefits of yoga poses.</p> <p>To enable the teacher trainees to use previous knowledge to understand the core Concepts -Contemporary Education in India ;</p> <p>To enable the teacher trainees to use previous knowledge to understand the core Concepts</p> <p>To enable the teacher trainees to use previous knowledge to understand the core Concepts -Guidance and Counselling ;</p> <p>To enable the teacher trainees to use previous knowledge to understand the core Concepts -value and peace education ;</p> <p>To enable the teacher trainees to use previous knowledge to understand the core Concepts - gender studies a</p>
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				Inclusive Education	To enable the teacher trainees to use previous knowledge to understand the core Concepts - inclusive education . and add to existing knowledge.
				Pedagogy of Mathematics	To enable the teacher trainees to use previous knowledge to understand the core Concepts - Mathematics /
				Pedagogy of Physical Sciences	To enable the teacher trainees to use previous knowledge to understand the core Concepts Physical science
				Pedagogy of Biological Science	To enable the teacher trainees to use previous knowledge to understand the core Concepts -vBiological science
				Pedagogy of Social Sciences	To enable the teacher trainees to use previous knowledge to understand the core Concepts -social science ;
				Pedagogy of English	To enable the teacher trainees to use previous knowledge to understand the core Concepts -English
				Pedagogy of Telugu	To enable the teacher trainees to use previous knowledge to understand the core Concepts -vTelugu
				Pedagogy of Hindi	To enable the teacher trainees to use previous knowledge to understand the core Concepts d Hindi.

42	M.Phil(Sociology)	<p>Sociology is a research course in human society. The course provides a platform for students to carry out research in the study of human society; development functioning and structure.</p> <p>The major aim is to provide opportunities to the students going beyond the boundaries of their own discipline and think over the interdisciplinary and multidisciplinary approaches.</p> <p>Thus, this course is designed to provide basic and advanced theoretical as well as methodological knowledge of sociology for application.</p> <p>It also aim to enhance the skills, capabilities and employment opportunities of the students.</p> <p>This course is designed</p>	<p>At the completion of the course, the students will acquire knowledge and develop their Skills in sociology.</p> <p>After completion of this course, student would get job opportunities in the fields of teachings, research, NGOs, corporate sectors and Governmental sectors.</p> <p>This course also helps students to qualify the NET/JRF/SET and Competitive Exams such as TPSC / UPSC / Social Welfare / Social work Departments and others etc.</p> <p>This course has also relevance in the field of production of knowledge about the human behavior, social issues and phenomena. This production of knowledge would be helpful to the policy makers, developmental organizations, researchers, social activist, and social scientists.</p> <p>The sociological knowledge would be useful in the social reconstruction of the social structure.</p> <p>The sociology not only provides employment opportunities alone, but also makes the students rational, critical and logical.</p>	Research Methodology	<p>Students understood Scientific Method in Social Science Research, quantitative and qualitative approach to Research. Motivated to continue higher studies in Research.</p>
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43	Ph.D. in Sociolog	<p>The Ph.D. Programme in Sociology aims to impart critical thinking skills to the students and equip them to conduct rigorous research using both qualitative and quantitative research methods to advance the knowledge about the society.</p> <p>Another aim is the development of an appreciation for a disciplined inquiry, observation and research analysis of the social phenomena.</p> <p>The purpose is to train future scholars in the fundamental skills of the discipline of sociology. Students will acquire advanced knowledge of sociological theory and research in their chosen areas of specialization within the discipline in order to make a significant and original</p>	<p>Summarize and explain major theories and theoretical debates in the discipline of sociology;</p> <p>Design and complete data collection and analysis for an original piece of research; Demonstrate competence with qualitative and quantitative methods and research design;</p> <p>Acquire broad understanding of the major theoretical debates and areas of substantive concern within the discipline of sociology, while also acquiring in-depth knowledge of at least two substantive subfields.</p> <p>Conduct original, theoretically engaged research grounded in highly skilled methodological techniques.</p> <p>Enter the sociological profession as accomplished scholars and teachers engaged in knowledge production and critical intervention in academic, policy and/or public arenas.</p>	Research Methodology	<p>Students understood Scientific Method in Social Science Research, quantitative and qualitative approach to Research. Motivated to continue higher studies in Research.</p>
44	M.Phil Public Administration	<p>To expand the Knowledge of Public Administration,</p>	<p>The scholars will be equipped with the necessary research skills and ability to translate the research problem to the feasible solution</p>	<p>Research Methodology</p> <p>Broad Field</p>	<p>To understand the concepts of research methodology and develop research aptitude</p> <p>Equip the scholars with necessary skills to pursue research and come out with possible solutions in the discipline of public administration</p>
45	Ph.D Public Administration	<p>To enhance the knowledge and develop skills in the domain of Public Administration and encourage long-term</p>	<p>The blend of theory and practice will help students to understand the mix of hard and soft skills they will need to be effective policy entrepreneurs and students will leave the course having expanded and strengthened their policy</p>	<p>Research Methodology</p> <p>Broad Field</p>	<p>To understand the concepts of research methodology and develop research aptitude</p> <p>Equip the scholars with necessary skills to pursue research and come out with possible solutions in the discipline of public administration</p>

46	M.Phil in Political Science	to promote interdisciplinary research promote studies that have direct relevance to current political issues/challenges, at regional or global level. Train students in different research methods, tools and techniques	Identify research topics with problems in real-life situations. Can acquire procedures to design research Researchers can study important issues of contemporary times that contributes to public debates and policy formulations	Research Methodology	he learners learnt about Scientific methods in Social Science research they acquired skills for data collection for surveys in political science they acquired skills of tools and techniques for online surveys
				Broad Field	gained knowledge of the subject encompassing the fundamental concepts, theories, perspectives, and ideological discourses in Political Science. used the skills and disciplinary insights to critically examine, assess and explain the political phenomenon applied concepts of politics and theoretical frameworks to contemporary politics.
47	Ph.D in Political Science	to promote interdisciplinary research promote studies that have direct relevance to current political issues/challenges, at regional or global level. Train students in different research methods, tools and techniques	"Identify research topics with problems in real-life situations. Can acquire procedures to design research Researchers can study important issues of contemporary times that contributes to public debates and policy formulations "	Research Methodology	he learners learnt about Scientific methods in Social Science research they acquired skills for data collection for surveys in political science they acquired skills of tools and techniques for online surveys
				Broad Field	gained knowledge of the subject encompassing the fundamental concepts, theories, perspectives, and ideological discourses in Political Science. used the skills and disciplinary insights to critically examine, assess and explain the political phenomenon applied concepts of politics and theoretical frameworks to contemporary politics.
48	M.Phil History	To expand the Knowledge of History	The scholars will be equipped with the necessary research skills and ability to translate the research problem to the feasible solution	Research Methodology	To understand the concepts of research methodology and develop research aptitude
				Broad Field	Equip the scholars with necessary skills to pursue research and come out with possible solutions in the discipline of History
49	Ph.D History	Though creating new knowledge is part of the PhD training, the main objective of doing PhD degree is to become a	Scholars will get the knowledge and develop skills in the domain of History and encourage long-term thinking and better strategic planning.	Research Methodology	To understand the concepts of research methodology and develop research aptitude, Historiography
				Broad Field	Equip the scholars with necessary skills to pursue research and come out with possible solutions in the discipline of History.

50	M.Phil in Economics	1. The goal of this course at the detailed analysis and research on the topic with an aim to explore some latest and sustainable solutions for the well being of our economy.	1. Analyze the ethical and social justice dimensions of market and policy outcomes	Research Methodology	1. Describe the important methodological and design issues underlying applied human research.
		2. In the degree course candidates are provided with a holistic view of the subject in a gradual and progressive manner so, as to allow them the time to understand the key concepts.	2. Communicate effectively in written, oral and graphical form about specific issues and to formulate well-organized written arguments that state assumptions and hypotheses supported by evidence.	Broad Field	2. Carry out independent research using a range of research designs and methods.
		3. Successful completion	3. Examine an economic position in terms of the accuracy of its representations of economic principles and concepts and the soundness of its use of those concepts and principles to make a claim about economics		3. Describe the essential features of a range of advanced statistical techniques
			4. Solve real-world economic problems effectively in the context of an industry or field of study, showing that they can identify and collect the appropriate economic data, analyze data in terms of costs and benefits, present		4. Have in-depth knowledge about economic theory regarding the utilisation and allocation of resources, including labour, natural resources and capital
51	Ph.D. in Economics	1. The main objective of the program is to train students to become independent researchers, who are able to produce high-quality research for both academic and non-academic settings. This requires students to learn how to identify interesting questions, find creative solutions, and learn how to present the results of their work to the scientific community.	1. Analyze the ethical and social justice dimensions of market and policy outcomes	Research Methodology	1. Describe the important methodological and design issues underlying applied human research.
			3. Examine an economic position in terms of the accuracy of its representations of economic principles and concepts and the soundness of its use of those concepts and principles to make a claim about economics		3. Describe the essential features of a range of advanced statistical techniques
			4. Solve real-world economic problems effectively in the context of an industry or field of study, showing that they can identify and collect the appropriate economic data, analyze data in terms of costs and benefits, present		4. Have in-depth knowledge about economic theory regarding the utilisation and allocation of resources, including labour, natural resources and capital

52	M.Phil.	Make the student proficient in methods and techniques of research and their application to the	Understand and integrate research skills to professional activities. Gain specialized knowledge in select areas of LIS	Research Methods	Understand and integrate research skills to professional activities.
				Recent Advances in Library & Information Science	Gain specialized knowledge on recent developments in LIS Profession Pursue Ph.D. Programme.
53	Ph.D.	Promote Interdisciplinary research Encourage qualitative and quantitative research	Carry out interdisciplinary research Contribute to theory of LIS Develop skills of research, analysis, reasoning and report writing.	Research Methods	Understand and integrate research skills to professional activities.
				Specialization	Carry out interdisciplinary research Contribute to theory of LIS Develop skills of research, analysis, reasoning and report writing.
54	M.Phil-Zoology	To provide fundamental preparation and training in research in Zoology including specific practical and research skills and approaches in a selected area of zoology	Gains knowledge about research methodologies, effective communication and skills of problem solving methods. Explain contemporary issues, kinds of data generated in various fields of zoology related to their area of specialization.	Research methodology	Master core concepts and methods from taxonomy, biochemistry, physiology, statistics, instrumentation as they are essential to carry on research programme. <u>Learns different tools and techniques for carrying research.</u>
				Broad field	Understand the applied and social relevant problems and ways of addressing them, including interactions across local to global scales.

55	Ph.D- Zoology	<p>To develop fundamental background and training in research aptitude including specific experimental and research skills and approaches in s elected areas of zoology.</p> <p>To provide opportunities to develop transferable skills; inculcate a culture of quality and responsibility in conducting research.</p> <p>To enhance students capacity to work to solve problems, think critically and innovatively in areas choosen.</p> <p>To demonstrate the ability to teach post graduate and graduate courses in their areas of specialization.</p> <p>To demonstrate an understanding and</p>	<p>Access the primary literature, identify relevant works for a particular topic in life sciences and evaluate the scientific content of these works.</p> <p>Explain contemporary issues, kinds of data generated in various fields of zoology related to their area of specialization.</p> <p>Possess an ability to identify, formulate, and solve biological problems to contribute to service efforts to the community.</p> <p>Apply multidisciplinary fundamentals of statistical tools, software and physical principles (physics, chemistry, maths) to analyze relevant biological situations.</p> <p>Write scientific reports and communicate results in oral presentations. Publish the findings in scientific journal, conference proceedings and books.</p> <p>Write thesis in a standard scientific format using the current norms of scientific writings.</p>	Research methodology	<p>Extends the limits of what is currently known through innovative and high-quality work.</p> <p>Attains the capacity to devise, design and conduct research that has real academic weight, target and integrity.</p> <p>Develops systematic understanding of a subject and mastery of the skills and methods associated with this subject.</p> <p>Develops the capacity for critical analysis, assessment and synthesis of new and complex ideas.</p> <p>Knows to satisfy standards associated with national and international peer-reviewed publications in the broad field.</p>
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56				Broad field	<p>Adopts good and innovative, original field of research.</p> <p>Standardizes all the techniques before starting lab experiments. Repeats all experiments before coming to a conclusion.</p> <p>Conducts experiments on various related instruments for better projection of results.</p> <p>Looks at progress of work.</p> <p>Projects the work in 1st viva and performs well in prePhD.</p> <p>Prepares the thesis draft and obtains plagiarism check.</p>
57	M. Phil - Physics	<p>1. The main objective of this program is to inculcate the scientific culture and do research on some area to find out the new innovations in the field of Physics.</p> <p>2. In the degree course candidates are provided with a holistic view of the subject in a gradual and progressive manner so, as to allow them to understand the key concepts.</p> <p>3. Successful completion of this program can find job in various fields such as jobs in teaching and research, consultants, Technicians and research Assistants etc.</p>	<p>1. Master core concepts and methods from physical sciences and their application in doing research in Physics.</p> <p>2. Master core concepts and methods such as synthesis and characterization techniques and preparation of materials, as the research involve these basic preparations.</p>	Research methodology	<p>Core concepts of materials and methods and their analysis as they pertain to the design and evaluation characterization of materials. They will come to know different methodologies and to do data analysis and different techniques used for different parameters.</p>
58				Broad field	<p>Understand how the materials undergo different changes. They will know what are the techniques to be followed.</p>

59	Ph. D - Physics	<p>Extending the limits of what is currently known through innovative and high-quality work.</p> <p>The capacity to devise, design and conduct research that has real academic weight is</p>	<p>They can be employed by various National organizations or Industries such as NFC, DRDO, ECIL etc and any educational Institution.</p> <p>There are possibilities of joining the research sector in the government or positions in management, consulting services, and doing scientific research.</p>	<p>Research methodology</p>	<p>1. Identifying the problem. Review of literature, need for the study and high-quality work.</p> <p>2. They understand to proceed for the work, laboratory techniques and procedures. Also develop different techniques to be used for the purpose of doing research in that particular area.</p>
60				Broad field	Scholar should be able use TEM, SEM, X-ray diffraction and spectroscopic studies for FTIR etc.
61	M.Phil	<p>1. To prepare students for successful career in research institutes and various fields.</p> <p>2. To develop the ability among the students to apply mathematical techniques in research.</p> <p>3. To enable the students to work as a team with multidisciplinary approach</p>	<p>1. After successful completion of Master of Philosophy in Mathematics students will be able to demonstrate basic knowledge in mathematical science.</p> <p>2. The students would acquire basic knowledge of research and skills to design and conduct classes and interpret the results.</p> <p>3. The students will be able to demonstrate understanding of basic knowledge in modern mathematical techniques.</p> <p>4. The students will be able to acquire knowledge to solve real life problems</p>	<p>Research methodology</p>	<p>Core concepts of materials and methods and their analysis as they pertain to the design and evaluation characterization of mathematics.</p> <p>They will come to know different methodologies and to do data analysis and different techniques used for different mathematics methods.</p>
				Broad field	<p>To Enable the students to obtain advanced knowledge in a specialized field.</p> <p>7. To Engage in life-long learning through self-study, continuing education or doctoral level studies.</p> <p>8. To become as mathematical professionals, or are qualified for a training as scientific researcher.</p>

62	Ph.D	<p>To Undergone relevant (taught) courses required for undertaking specialized research.</p> <p>To Identify unsolved yet relevant problem in a specific field.</p> <p>Articulating ideas and strategies for addressing a research problem.</p> <p>Undertaken original research on a particular topic.</p> <p>Effectively communicating research, through journal publications and conference presentations, to the mathematics community.</p> <p>Disseminating research to a broader audience</p> <p>Generate publications in reputed mathematical</p>	<ol style="list-style-type: none"> 1. Advanced graduate- level expertise in at least two subject areas and basic knowledge in a variety of other subject areas. 2. An ability to create new mathematical and/or statistical research. This includes being able to independently come up with ideas for research, and carry through an independent investigation of these. 3. An ability to identify open problems in a research area where progress is possible and important. 4. The ability to assimilate mathematical and/or statistical knowledge beyond the mere repetition of knowledge acquired in courses or preliminary research investigations. In addition, for applied mathematics and statistics, facility Indicator: Research activity, monitored by annual progress reports, culminating in the thesis defence. MATH/STAT Thesis defence with the application area as well as how mathematics and/or statistics contributes to this application. 5. The ability to quickly learn new mathematical or statistical knowledge and understand when these are applicable to a new problem or area of application. There is an expectation that this learning should be done in an independent manner. 6. An understanding that students owe an obligation to the public at large when it comes to explaining the importance and relevance of 	Research methodology	<p>Provide scope for interaction with international researchers and developing collaborations.</p> <p>Demonstrate the highest standard of ethics in research. •</p> <p>Provide opportunities to research students for communication (and discussion) of advanced mathematical topics to undergraduate and graduate students.</p> <p>Produce next generation researchers in mathematics.</p>
63				Broad field	<p>The ability to present their research in written and oral form using generally accepted professional practices and adhering to standards of quality and clarity of presentation commensurate with those of a professional mathematician or statistician.</p> <p>8. A mature and sophisticated awareness of how their research and levels of knowledge fit within what is already known and what is not yet known</p> <p>9. A high level of familiarity with the fundamental results of their field, and an ability to reproduce their proofs or sketches of their proofs without assistance.</p>

64	M.Phil Environmental Science	<p>1. The goal of this course at the detailed analysis and research on the topic with an aim to explore some latest and sustainable solutions for the well being of our environment.</p> <p>2. In the degree course candidates are provided with a holistic view of the subject in a gradual and progressive manner so, as to allow them the time to understand the key concepts. It is a specific branch of science provide an advanced study of our natural and man-made environments.</p> <p>3. Successful completion in this course degree holder can find job in various fields such as jobs in teaching and research, in roles such as Consultants, Technician, Research Assistant, Environment specialist,</p>	<p>1. Master core concepts and methods from ecological and physical sciences and their application in environmental problem solving.</p> <p>2. Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.</p> <p>3. Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.</p> <p>4. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.</p>	Research methodology	<p>Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.</p> <p>3. Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.</p> <p>4. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.</p>
65				Broad field	<p>Example: Climate change and biological invasion, Eco-restoration programmes</p> <ul style="list-style-type: none"> - International and national level studies, Human - Animal Conflicts, Development and Ecology - selected National and International issues

66	Ph.D Environmental Science	<p>Extending the limits of what is currently known through innovative and high-quality work.</p> <p>The capacity to devise, design and conduct research that has real academic weight, is targeted and shows integrity.</p> <p>Systematic understanding of a subject and mastery of the skills and methods associated with this subject.</p> <p>The capacity for critical analysis, assessment and synthesis of new and complex ideas.</p> <p>Satisfying standards associated with national and international peer-reviewed publications in the broad field.</p>	<p>They can be employed by various organizations such as Water Authority, Pollution Control Board, and Urban Planning in this sector.</p> <p>They can apply for jobs in fertilizer plants and can also work in food processing companies as Managers.</p> <p>There are possibilities of joining the research sector in the government or non-profit organizations for potential environmental scientists. They also have the opportunity to get positions in management, consulting services, and doing scientific research.</p> <p>Environmental Scientist is an expert who studies the physical environment of objects. His work includes studying interactions among physical, chemical, and biological components of the environment. Environmental scientists focus on pollution and degradation of the environment related to human activities and their adverse impact on biodiversity and sustainability of nature.</p>	Research methodology	<ol style="list-style-type: none"> 1. Extending the limits of what is currently known through innovative and high-quality work. 2. The capacity to devise, design and conduct research that has real academic weight, is targeted and shows integrity. 3. Systematic understanding of a subject and mastery of the skills and methods associated with this subject. 4. The capacity for critical analysis, assessment and synthesis of new and complex ideas. <p>Satisfying standards associated with national and international peer-reviewed publications in the broad field.</p>
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			Broad field	<p>Scholar should be able follow the following Principles, tools in EIA, LCA, Environment Audit.</p> <p>Human activities and impacts: Local, regional and global; short term and long</p> <p>-</p> <p>term impacts</p> <p>on Environment. Origin and development of EIA, National environmental policy and</p> <p>Statutory requirements of EIA; objectives of EIA, Methodology of EIA; Scoping,</p> <p>Categorization and Evaluation criteria; prediction and assessment of impact, interactions</p> <p>between environmental components and impacts. Alternate strategies, mitigation measures,</p> <p>environmental monitoring and audit. SWOT analysis in environment management.</p> <p>CRZ &</p> <p>EEZ</p> <p>-</p>
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68	M.Phil(Chemistry)	<p>1. To introduce and provide knowledge of research methodology.</p> <p>2. The goal of this course at the detailed analysis and research on the topic with an aim to explore some latest and sustainable solutions for Problems associate with Chemical Sciences.</p> <p>2. In the degree course candidates are provided with a holistic view of the subject in a gradual and progressive manner so, as to allow them the time to understand the key concepts of Chemistry. It is a specific branch of science provide an advanced study of elements, compounds, matter, nature and lives.</p> <p>3. Successful completion in this course degree holder can find job in various fields such as jobs in teaching and</p>	<p>1. Master core concepts and methods from core areas chemistry and chemical sciences and their application in industrial and every life.</p> <p>2. Master core concepts and methods from synthesis, separation, characterization and analysis as they pertain to the design and evaluation of opted research area.</p> <p>3. Understand the transnational character of Chemical science and biological, biochemical problems and ways of addressing them, including interactions across local to global scales.</p> <p>4. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.</p>	Research methodology	<p>Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of chemical science methods, procedures and institutions .</p> <p>Understand the transnational character of problems associated with chemical sciences.</p> <p>Reflect critically about their roles and identities as consumers, manufactures and interconnected world.</p>
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69				Broad field	<p>To have a deep working knowledge of the principles, techniques, and concepts of contemporary chemistry.</p> <p>To be able to effectively design and carry out independent research leading to new knowledge or a practical, applicable result.</p> <p>To be able to communicate clearly and effectively within and across disciplinary lines.</p> <p>To be able to educate students interested in chemical sciences.</p> <p>To be aware of and prepare for various career opportunities with an advanced degree in chemistry.</p> <p>To clearly understand the ethical conduct of research.</p> <p>To understand and adopt the best safety practices in chemical research.</p>
70	Ph.D(Che mistry)	<p>Extending the limits of what is currently known through innovative and high-quality work.</p> <p>The capacity to devise, design and conduct research that has real academic weight is</p>	<p>They can be employed by various organizations such as Water Authority, Pollution Control Board, and Urban Planning in this sector.</p> <p>They can apply for jobs in fertilizer plants and can also work in food processing companies as Managers.</p> <p>There are possibilities of joining the research</p>	Research methodology	<p>Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of chemical science methods, procedures and institutions .</p> <p>Understand the transnational character of problems associated with chemical sciences.</p> <p>Reflect critically about their roles and identities as consumers, manufactures and interconnected world</p>

		<p>targeted and shows integrity.</p> <p>Systematic understanding of a subject and mastery of the skills and methods associated with this subject.</p> <p>The capacity for critical analysis, assessment and synthesis of new and complex ideas.</p> <p>Satisfying standards associated with national and international peer-reviewed publications in</p>	<p>sector in the government or non-profit organizations for potential environmental scientists. They also have the opportunity to get positions in management, consulting services, and doing scientific research.</p> <p>Environmental Scientist is an expert who studies the physical environment of objects. His work includes studying interactions among physical, chemical, and biological components of the environment. Environmental scientists focus on pollution and degradation of the environment related to human activities and their adverse impact on biodiversity and sustainability of nature.</p>	Broad field	<p>To have a deep working knowledge of the principles, techniques, and concepts of contemporary chemistry.</p> <p>To be able to effectively design and carry out independent research leading to new knowledge or a practical, applicable result.</p> <p>To be able to communicate clearly and effectively within and across disciplinary lines.</p> <p>To be able to educate students interested in chemical sciences.</p> <p>To be aware of and prepare for various career opportunities with an advanced degree in chemistry.</p> <p>To clearly understand the ethical conduct of research.</p> <p>To understand and adopt the best safety practices in chemical research.</p>
71	M.Phil- Education	<p>1. To provide fundamental preparation, training in research in education.</p> <p>2.To provide opportunities to develop skills, quality</p>	<p>Understands the research methodologies, effective communication skills.</p> <p>Gains knowledge about contemporary issues, kinds data generated in the field of Education.</p>	<p>Research methodology</p> <p>Broad field</p>	<p>Understands the research methodologies, effective communication skills.</p> <p>Gains knowledge about contemporary issues, kinds data generated in the field of Education.</p> <p>Explains the students capacity to work effectively with others , to solve problems, think critically and innovatively.</p>

72	Ph.D - Education	<p>To develop fundamental background and training in research aptitude ,skills and approaches in Education.</p> <p>To provide opportunities to develop skills, quality and responsibility in conducting research.</p> <p>To enhance students capacity to work effectively with others , to solve problems, think critically and innovatively.</p> <p>Understanding and concern for high ethical standards in research, teaching and service.</p> <p>To work effectively with other people from various ethic, educational and professional back grounds.</p> <p>To demonstrate the ability to communicate the results of their research work in a clear and effective manner.</p>	<p>Understands the primary literature, identify relevant works for particular topic in education.</p> <p>Gains knowledge about contemporary issues, kinds data generated in the field of Education.</p> <p>Explains the students capacity to work effectively with others, to solve problems, think critically and innovatively.</p> <p>Apply multidisciplinary fundamentals of statistical tools, software .</p> <p>Write reports and communicate results in oral presentations. Publish the finding in research jurnal, conference proceeding and books.</p> <p>Write thesis in a standard format using the current norms of writings.</p>	Research methodology	<p>To enhance students capacity to work effectively with others , to solve problems, think critically and innovatively.</p> <p>Understanding and concern for high ethical standards in research, teaching and service.</p> <p>To work effectively with other people from various ethic, educational and professional back grounds.</p> <p>To demonstrate the ability to communicate the results of their research work in a clear and effective manner.</p>
73				Broad field	<p>Write reports and communicate results in oral presentations. Publish the finding in research jurnal, conference proceeding and books.</p> <p>Write thesis in a standard format using the current norms of writings</p>
74	MBA(M.Phil)	<p>The M.Phil. Program aims to provide the students a basic understanding of the</p>	<p>Appreciate the avenues of research;</p> <p>Acquire skills relating to the collection and analysis of data using appropriate methods / techniques;</p>	Research methodology	<p>Acquire skills relating to the collection and analysis of data using appropriate methods / techniques;</p> <p>Demonstrate the ability to communicate the results of their research in a clear and effective manner;</p>

	nuisances of research and its importance in giving direction to growth and development	Demonstrate the ability to communicate the results of their research in a clear and effective manner; <u>Demonstrate an understanding and concern for</u>	Broad field	Demonstrate an understanding and concern for the ethical standards in conducting research; Making a significant contribution to the knowledge in, or understanding of, the selected field of study.
MBA(M.Phd)	The Ph.D. Program aims to provide the students a basic understanding of the nuisances of research and its importance in giving direction to growth and development of business and	Appreciate the avenues of research; Acquire skills relating to the collection and analysis of data using appropriate methods / techniques; Demonstrate the ability to communicate the results of their research in a clear and effective manner; <u>Demonstrate an understanding and concern for</u>	Research methodology	Acquire skills relating to the collection and analysis of data using appropriate methods / techniques; Demonstrate the ability to communicate the results of their research in a clear and effective manner;
			Broad field	Demonstrate an understanding and concern for the ethical standards in conducting research; Making a significant contribution to the knowledge in, or understanding of, the selected field of study.
75	M.Phil(Hindi) 1) The aim of this course is to provide a detailed outlook and examine the topic chosen by the scholar. It aims to explore some latest contemporary trends and cultural issues for the well being of our society 2. In order to give students time to comprehend the fundamental ideas, the programme presents a comprehensive picture	1. Master fundamental ideas and techniques from the cultural and social sciences and how to use them to solve societal issues. 2. Learn the fundamental theories and techniques of technical, political, and social analysis as they apply to the creation and assessment of social (public and private sector) bodies and policies. 3. Recognize the transnational nature of social and cultural issues and solutions, including linkages between local and global scales.	Research methodology	1) Using creative and excellent work to push the boundaries of what is already known. 2. The ability to create, plan, and carry out research that is focused, ethical, and has true academic weight. 3. Comprehensive knowledge of a subject and proficiency in the techniques and approaches related to it. 4. The ability to critically analyse, evaluate, and analyze fresh and challenging ideas or concepts
	Ph.D Hindi	1. In this field, they can work for a variety of organizations such as language officers, editors, translators, writers, media related professions and so on. 2. They can seek for jobs in various institutions (public and private) and take on managerial roles at organizations that deal with language and societal issues. 3. Potential language scientists have the option of working in the research sector for the government or non-profit organisations.	Broad field	Extending the realm of the knowledge by imaginative and outstanding work and the capacity to design, organise, and conduct focused, moral, and genuinely academically significant research. Moreover, gains a complete understanding of a subject and competence in the methods and strategies that pertain to it.
	1. Expanding the boundaries of what is currently understood through creative and top-notch work. 2. the ability to plan, organise, and carry out research that is focused, ethical, and has actual academic weight. 3. systematic knowledge	1. In this field, they can work for a variety of organizations such as language officers, editors, translators, writers, media related professions and so on. 2. They can seek for jobs in various institutions (public and private) and take on managerial roles at organizations that deal with language and societal issues. 3. Potential language scientists have the option of working in the research sector for the government or non-profit organisations.	Research methodology	1) Using creative and excellent work to push the boundaries of what is already known. 2. The ability to create, plan, and carry out research that is focused, ethical, and has true academic weight. 3. Comprehensive knowledge of a subject and proficiency in the techniques and approaches related to it. 4. The ability to critically analyse, evaluate, and analyze fresh and challenging ideas or concepts

		of systematic knowledge of a subject and proficiency in the techniques and processes related to that subject 4. the ability to evaluate,	Government or non-profit organizations. Additionally, they have the chance to work in management, consultancy, and language sciences research. 4. An expert who investigates the language and social concerns surrounded is called a language scientist and humanist . He conducts research on	Broad field	1. To possess knowledge through creative and exceptional effort and the ability to plan, organise, and carry out purposeful, moral, and really meaningful and its application in everyday society. 2. Additionally, one learns proficiency in the relevant techniques and strategies as well as a thorough comprehension of the issue at hand and applies it.
76	P.G. Diploma in Women Studies	Demonstrate knowledge of the field; Understand interrelatedness of gender, race, ethnicity, class, disability, sexuality, age, religion, and other social categories; Apply theoretical frameworks of feminism, gender and women's studies, queer studies, sexuality studies; Apply methods and methodologies.	Students should demonstrate the ability to conduct interdisciplinary feminist analysis; Students should demonstrate the ability to critique ideological assumptions underlying social institutions and systems of representation, including but not limited to assumptions regarding gender, race, class, nationality, disability, age and sexual orientation; Students should demonstrate an understanding of women's historical and contemporary agency and how these have shaped women's lives in various geographic settings.		
77	PGDHR M	create awareness of the concept and give a philosophical approach to Human Rights as a global issue - give a comprehensive understanding of the fundamental rights guaranteed by the Indian Constitution	Learning Outcomes - prepares the PG diploma holders: - to update knowledge of learners on the emerging HR issues in the process of development - to create consciousness regarding HR of disadvantaged groups and their Constitutional rights and provisions, especially Dalits and women	Human Rights: Philosophical Foundations	The learners can understand Human Rights: Philosophical Foundations
				Human Rights: Historical Perspective	The learners can understand Human Rights: Historical Perspective
				Human Rights: Global Experience	The learners can understand Human Rights: Global Experience
				Human Rights in India: Constitutional, Legal and Institutional Framework	The learners can understand Human Rights in India: Constitutional, Legal and Institutional Framework
				Human Rights in India: The Socio, Economic and Political Context	The learners can understand Human Rights in India: The Socio, Economic and Political Context
				Project Work	The learners can understand Project Work
78	Certificate Program in	To provide students with the knowledge of basic terminology and several aspects of nutrition and	Critically discuss/ understand both fundamental and applied aspects of food science. Able to explain functions of specific nutrients in	You and Your Food	The learners can understand You and Your Food
				Your Food, Its utility	The learners can understand Your Food, Its utility

	Food & Nutrition	the functions of food in healthy life sustenance.	maintaining health, identifying nutrient specific foods and apply principles from the various	Food, Economics	The learners can understand Food, Economics
79	Post Graduate Diploma in Environmental Studies(P GDES) (Diploma)	To bring awareness regarding environmental issues. To spread the knowledge of pollution and health issues. To propagate the information regarding various environmental movements and treaties.	Environmental Science student are able to acquire knowledge, competent professionals with a strong foundation of Environmental Science and application to be suitable for vital positions in the academia, industry and government and non-government institutions as skilled manpower.	Ecology, Environment and Development Environmental Awareness and Health Contemporary Environmental issues Physical Sciences/Environmental Botany/Environmental Geosciences/Environment: A Social Sciences Perspective Project work	Environmental issues experienced by ecosystems will be Known Knowledge gained on environmental health Awareness on global environmental issues Knowledge gained on physical, biological, geological and social concepts of Environment.
80	P.G.Diploma in Computer Applications	Identify the Various Internet Technologies. Students will understand how to develop websites. Understand the working nature and differences of various Operating Systems.	Students will be able to understand basic to high level programming skills in computer Applications needed to enter the job force. Students will be able to communicate key Computer Applications concepts to non-computer people. Students will gain proficiency in using various softwares/tools for writing code and design databases.	P.G.Diploma in Computer Applications	Students will be able to understand basic to high level programming skills in computer Applications needed to enter the job force. Students will be able to communicate key Computer Applications concepts to non-computer people. Students will gain proficiency in using various softwares/tools for writing code and design databases.
81	CERTIFICATE PROGRAMME IN EARLY CHILDHOOD CARE AND EDUCATION	To strengthen the professional competencies of pre-school teachers To develop skills required in selecting and organising learning experiences and activities.	Gains knowledge about Early childhood; The child ; recommendations of NPE 1986 Understands the skills required in selecting and organising learning experiences and activities.	CERTIFICATE PROGRAMME IN EARLY CHILDHOOD CARE AND EDUCATION	Gains knowledge about understanding of the various techniques of management in the classroom

82	CERTIFICATE PROGRAMME IN LITERACY AND COMMUNITY DEVELOPMENT	<p>To promote an awareness among workers about adult education ; community development</p> <p>To develop necessary skills related to field functionaries of adult education.</p> <p>To strengthen the competencies of field functionaries in adult education</p>	<ol style="list-style-type: none"> 1. Understands the awareness among workers about adult education ; community development. 2. Gains knowledge about necessary skills related to field functionaries of adult education. 3. Explains the competencies of field functionaries in adult education 	CERTIFICATE PROGRAMME IN LITERACY AND COMMUNITY DEVELOPMENT	<p>o promote an awareness among workers about adult education ; community development To develop necessary skills related to field functionaries of adult education.</p>
83	Post Graduate Diploma in Marketing Management (PGDMM)	<p>Familiarize students with the quintessential environment both external and internal in which a business operates. This course gives an in-depth insight into the dynamic environmental factors that have a bearing on the success or failure of an organisation.</p> <p>Expose the students to the use of accounting information for planning, control and</p>	<p>Understand the framework of maximising the shareholders wealth through the application of financial management Techniques</p> <p>Provide an overview of the Indian Financial system through a comprehensive discussion of the Financial Institutions and their role in Economic Growth</p> <p>Provides the background needed to understand the nature and importance of Financial Services and expose the student to the specialised Financial services and agencies providing such services.</p> <p>Give an overview of the Security Analysis to arrive at the alternatives available in the securities markets and gain an ability to manage portfolios effectively.</p>	Business Environment	<p>Gain an overview of the economic, political, social and cultural environment in which businesses operates.</p> <p>Decipher the technological and social change and its economic effect on the business with more focus on plant level changes.</p> <p>Appreciate the Five year plans of the country and how the objectives and priorities of a business are tuned to be in line with the Economic policy of the day.</p> <p>Understand how industrial policies impact the structure and growth of industries in the economy.</p> <p>Understand the importance of Foreign Exchange, Foreign Capital and the delicate balance of payments situation.</p>

planning, control and decision making.

portfolios recovery.

Accounting for Management	<p>Understand the basic principles and standards of accounting.</p> <p>Develop the ability to use the information contained in the Financial Records for decision making.</p> <p>Develop a background in which the management accounting tools and techniques are used in the context of decision making.</p> <p>Analyse the special issues in financial reporting.</p> <p>Comprehend the various provisions of the Company Act regarding raising capital and accounting procedures for declaring and distributing dividends</p>
Financial Management	<p>Comprehend the introductory aspects of Financial Management and the methods and sources of raising finance.</p> <p>Understand the importance and techniques of Financial and investment analysis with the help of financial ratios, capital budgeting and budgetary control.</p> <p>Gain knowledge of financial techniques of preparation of cash and funds flow statements and their use in decision making and forecasting.</p> <p>Appreciate Capital structure theories and their approaches in determining the capital structure and also understand the dividend decisions taken by a firm.</p> <p>Appreciate the importance of effective utilization of working</p>

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<p>Financial Institutions and Markets</p>	<p>Trace the evolution of financial systems in India and gain an understanding of its relationship with the economic planning of the country.</p> <p>Understand the structure of commercial banks in India and their role in expansion and sectoral distribution of credit.</p> <p>Comprehend the historical developments in the area of developmental banking.</p> <p>Understand the relationship between capital markets and investment institutions.</p> <p>Comprehend the various segments of financial markets and appreciate the need for greater regulation in the context of the</p>
<p>Financial Services</p>	<p>Comprehend the classification of Non-Banking financial services and plot the growth, problems and prospects of financial services.</p> <p>Understand the nature and classification of merchant banking activities.</p> <p>Appreciate the prospects of leasing and develop the ability to evaluate lease versus other financing propositions based on cost benefit analysis.</p> <p>Gain an in depth knowledge of the various credit rating agencies and the role played by them in facilitating credit creation.</p> <p>Familiarize with the concept, growth and the future of specialized financial services like factoring, venture capital and housing finance.</p>

				Security Analysis and Portfolio Management	<p>Gain a complete understanding of the components of Investment Risk, stresses risk as crucial factors in all investment decisions.</p> <p>Understand the primary and secondary market for securities in India, various financial instruments, players and trading arrangements prevalent in Indian Securities market..</p> <p>Learn Economy-Industry-Company (EIC) framework of analyses and understand their relevance for equity investment decisions.</p> <p>Understand the process of diversification to mitigate the risk involved in the securities market and familiarize with the models for selecting the optimal portfolio.</p> <p>Understand the methods of computing portfolio returns and distinguish between performance measurement and portfolio evaluation.</p>
84	BA Telugu	To intrance the modern prose writings; Influence of English Literature on prose of Telen Literative. Essays, Editorials, critical essays, Letter Wriety, short story are given. Stories from all dialects of Telign Language are introduced for proper understanding	To intrance the modern prose writings; Influence of English Literature on prose of Telen Literative. Essays, Editorials, critical essays, Letter Wriety, short story are given. Stories from all dialects of Telign Language are introduced for proper understanding	<p>Telugu moulikamshalu swarupam</p> <p>Pracheena kavitha parichayam</p> <p>Telugu moulikamshalu pada swarupam</p> <p>Aadunika parichayam</p>	<p>1. Language is a Landmark evolution in Human evolution. 2. The evolution of script and the close relation between Pronunciation and script.</p> <p>3. Learns techniques in reading, writing and uses the dictionary in a Corrections.</p> <p>1. Knows that Folk literative represents all walks of life.</p> <p>2. Develops moral values like hand-Working, dedication by studying classical Literature.</p> <p>3. Appreciates the beauty of both Literatures.</p> <p>1. Knows about word formation in various ways.</p> <p>2. Practices making phrases out of Sentences.</p> <p>3. Under stands relation between Telen and other related Languages</p> <p>4. Learns how to split and join words in Sandhi.</p> <p>5. Analyses Composite [Samasal Words</p> <p>1. Understands that Change in theme and form are Modem Telyn literative- the soul of</p> <p>2. Understands the impact of Independ Freedom struggle and Social Reforms on Modern Telign poetry.</p>

Telugu MoulikamSaalu Bhasha Naipunyalu	<ol style="list-style-type: none"> 1. Learns language skills like listening Speaking, reading and writing. 2. Writes i diomatic language using proverbs properly. 3. Learns writing letters for different Contexts of daily life 4. <u>Develops Skills for acquiring employment in related areas.</u>
Prachina Rachana Parichayam	<p>Understands the Comman mans Life in the folk prose Literative.</p> <ul style="list-style-type: none"> · Observes the Folk-culture. • Collects pieces of folk writing from Surrounding places. -- Understands the historical, socio-cultural and the linguistic importance of Telugu inscriptions and Kaifiats.
Telugu moulikamshalu srujaat	<ul style="list-style-type: none"> • Student will be able to appreciate the beauty and poetical values". 2. Recognizes the role played by songs and other Littrany forms in movements like freedom struggle and social reforms. 3. Understands the influence of English on Modern Telysn Literany forme like Novel, Story, drama and Essay. 4. Develops interest in reading biographies of greatmen
adunika vachana rachana parichayam	<p>Under stands, difference between classical and modern proserwritings.</p> <p>Recogomires the changes in content of Telugn proset narrates Contempo- -varv Social problems.</p>
anuvada vidaanalulu	<p>Under stands what is Translation.</p> <p>Knows the kinds and Methods of Translation.</p> <p>Practices Translating given passages from Telgu to English and vicevers</p> <p><u>Utilizes the skill in Translation fror seeking employment.</u></p>
maadyamala rachana	<p>Learns about. importance of Telugu in several Communicative sectors.</p> <p>Learns Writing to Newspapers, Offices. Applications of Telign Language in Andovisual media are practiced. Student moulds the knowledge of Whiling for Media to get job Opportunities.</p>

sahitya charitra	<p>Understand the gradual developments in relign Literative till today.</p> <p>Recognises the major impact of English on Tehen Literative since Modern times.</p> <p>Understands the movements run by Spokentelign Supporten.</p> <p>Develops Historical out look</p>
kalpanika sahityam	<p>Understands that Novel and Fichon are the literany forms which reflect on our daily life</p> <p>Knows the kinds of Novels and stories.</p> <p>Social backgrounds, Changes occessing in the socio-economic situations,</p> <p>Changes in human relations are realized by the student</p>
telangana sahityam	<p>Understands that Time and place infla the Literary ture.</p> <p>Know's the Special conditions and problems of Telangana Resion.</p> <p>Understands the Language, theme and techingu libed in the literative.</p> <p>Realizes the purpose served by the literatu in achieving particular goals.</p> <p>Develops an understanding about the Regional Literatur</p> <p>Studert- makes better use of this knowledge in his future literary studies</p>
telugu sahitya vivechana	<p>student understands Criticism is essential for better understadig of the literature.</p> <p>He Knims The theories of East and West on Liten</p> <p>Literary Criticism</p> <p>Understand Modern Literative and concepts of Literature.</p> <p>Develops critical out look to evaluate diffent kinds of Literative</p>

