

PROGRAMME OUTCOMES & COURSE OUTCOMES (UG)

Programme	Combination	Programme Outcomes	Programme Specific outcomes
B.A/ BSc./B.Com	General Telugu Advance Telugu	Expertise in the basic Telugu Language Provides the students with opportunities for higher education and employment opportunities in the Educational Institutions and also as Telugu translators and in Journalism fraternity.Promotes in-depth Knowledge in Literature, Current ways of Thinking and Education.	<ol style="list-style-type: none"> 1. To Gain in depth knowledge in the field of Telugu Literature 2. To know the Knowledge of Dialects 3. To Provide opportunities in the Teaching field.(TPT,JL,DL and Universities.) 4. To develop the Knowledge of Telugu Grammar. 5.To encourage the reading habits of the students and to encourage them to read the famous works in telugu Literature.
B.A/ BSc./B.Com	General English	All the U.G programmes (B.A,B.Sc, B.Com) have English as compulsory language .The motto behind is to improve the language skills like L.S.R.W (listening, speaking, reading,writing) of all students in the class. An English language lab was established in the college to give practice in vocabulary,accent, usage and communicative skills. This helps the students to develop better communication skills in English. Students get expertise in Letter writing, Note making, paragraph writing and in Resume /CV preparation.	All the U.G programmes (B.A, B.Sc, B.Com) have English as compulsory language .The motto behind is to improve the language skills like L.S.R.W (listening, speaking, reading, writing) of all students in the class. An English language lab was established in the college to give practice in vocabulary, accent, usage and communicative skills.This helps the students to develop better communication skills in English. Students get expertise in Letter
B.A, B.Com & B.Sc (Second language Hindi)	Hindi	Expertise in the basic knowledge in Hindi language and literature and to provide proficiency to the other subject students in Second language Hindi like B.A, B.Com & B.Sc.with opportunities to go for Higher Education and also employment opportunities in research.To provide knowledge in National language Hindi in the field of arts and Literature.Mass communication,Journalism, literary research and criticism are also taught to make the students employable.	<ol style="list-style-type: none"> 1. Student s gain the master knowledge in communication skills,reading skills and writing skills effectively as professionals and continue learning within the field of Hindi language and literature. 2. Gain specific Knowledge on poetry, prose and grammar of the language and literature in the field of Hindi as a Second Language.

B.A, B.Com	Urdu	Expertise in the basic knowledge	1. Student s gain the master
& B.Sc (Second language)		Urdu language and literature and to provide proficiency to the other subject students in Second language Urdu like B.A, B.Com & B.Sc. with opportunities to go for Higher Education and also employment opportunities in research. To provide knowledge in National language Urdu in the field of arts and Literature. Mass communication, Journalism, literary research and criticism are	knowledge in communication skills, reading skills and writing skills effectively as professionals and continue learning within the field of Urdu language and literature. 2. Gain specific Knowledge on poetry, prose and grammar of the language and literature in the field of Urdu as a Second Language.
B.A H.E.P	HISTORY ECONOMICS POLITICAL SCIENCE	Students will be able to apply, assess and debate the major Historical School of thought, Methodology and Types of Sources that historian me to make original arguments Papers Students have future in participating competitive exam with History back ground. Meant to reach the higher peak of examinations i.e., groups,civil and many more Understanding the role of heredity and environment on human behavior,enhances psychological knowledge required to be health physically and emotionally,to understang thestages of human development.Augment	History: History makes the students to make the world a better one knowing all the mistakes done in the past and also not to repeat them in future, historically, politically and economically. Economics: 1.The curriculum of the B.A programme mainly focuses on social interaction, especially History and Political Science. It helps the students to know history, culture, traditions of India as well as other countries in the world. 2.The programmes with humanity subjects‘ specifically political science throw light on effective citizenship. This enables the students to develop an ideal society with social concern and equity cantered nation. This type of learning triggers the spirit of the students to act upon social issues and participate in civic life through volunteering. 3.All UG Programmes curriculum emphasizes on values and ethics. The students learnt the value their life and others like harmony in the family and society, harmony in human relationship, understanding the harmony in the family-the basic unit of human interaction. Trust and

			<p>respect as the foundational values of relationship. This course is covered in the I-semester of the UG degree.</p> <p>Political Science:</p> <ol style="list-style-type: none"> 1. Comprehend the basic theories of political Science structures and processes of government systems. 2. Participate as a good citizen of the society. 3. Analyze political and policy problems and participate in formulating policy options. 4. Use electronic and traditional library resources to research key local, state, national and international policy issues and present results. 5. Demonstrate critical thinking, including the ability to form an argument, detect fallacies, and marshal evidence, about key issues of public policy and politics. 6. Discuss the major theories and concepts of political science and its subfields and deliver thoughtful and well articulated presentations of research findings.
B.A ADVANCED ENGLISH	HISTORY ADVANCED ENGLISH COMPUTER APPLICATION	<p>Students will be able to apply, assess and debate the major Historical School of thought, Methodology and Types of Sources that historians use to make original arguments. Papers Students have future in participating competitive exam with History background.</p>	<p>History: History collaborated with Advanced English and Computer Applications to give History a new spice which makes the dishes of subject delicious with new techniques with Computer Applications.</p> <p>Advanced English:</p> <ol style="list-style-type: none"> 1. Developing and integrating the use of four language skills i.e. listening, speaking, reading and writing. 2. Using English language effectively for written and oral communication. 3. Gaining the knowledge of British and American literature. 4. To make the students familiar with the basic forms of literature like poetic forms, figures of speech, literary terms etc. <p>Computer Applications: Hands-on</p>

			experience in various practical aspects of problem solving/ programming/experimental techniques, and data analysis and presentation competence. Effective use the software - MS Excel and C-Programming.
B.A H.P.U	HISTORY POLITICAL SCIENCE URDU	Students will be able to apply, assess and debate the major Historical School of thought, Methodology and Types of Sources that historian use to make original arguments. Students have future in participating competitive exam with History background.	<p>History: History connected with Urdu language makes the subject so unique and attractive; Political Science helps the students grow in this political world.</p> <p>Political Science:</p> <ol style="list-style-type: none"> 1. Comprehend the basic theories of political Science structures and processes of government systems. 2. Participate as a good citizen of the society. 3. Analyze political and policy problems and participate in formulating policy options. 4. Use electronic and traditional library resources to research key local, state, national and international policy issues and present results. 5. Demonstrate critical thinking, including the ability to form an argument, detect fallacies, and marshal evidence, about key issues of public policy and politics. 6. Discuss the major theories and concepts of political science and its subfields and deliver thoughtful and well articulated presentations of research findings. <p>Urdu:</p> <ol style="list-style-type: none"> 1. Students gain the master knowledge in communication skills, reading skills and writing skills effectively as professionals and continue learning within the field of Urdu language and literature. 2. Gain specific Knowledge on poetry, prose and grammar of the language and literature. 3. The integrated use of Advanced Urdu, History and Political Science

			<p>to achieve the sociological awareness and improving the moral values of all human beings with efficient leadership qualities and citizenship.</p> <p>4. Knowledge about rules, rights and regulations for the welfare of society and Nation</p>
B.A. R.D	Rural Development Advanced Telugu Psychology	<p>All the BA programmes have History / Economics /Political Science as optional subjects . The motto behind is to improve the social cultural, economic conditions of all students in the class. All UG programmes curriculum emphasize on values and ethics.The students learn to value their life and others and give importance to values and customs and maintain good rapport with others like harmony in the family and society – harmony in human relationship, understanding the harmony in the family – the basic unit of human interaction. Trust and respect as the foundational values of relationships. This course is covered in I semester of the UG degree. The B.A., programs throw light on to awake the students regarding a concept on -Environment and Sustainability -. The curriculum is designed in such a way to understand the issues of environmental contexts and sustainable development.</p>	<p>Rural Development:</p> <ol style="list-style-type: none"> 1.The curriculum of the B.A programme mainly focuses on social interaction, especially History and Political Science. It helps the students to know history, culture, traditions of India as well as other countries in the world. 2. The programmes with humanity subject’s specifically political science throw light on effective citizenship. 3. All UG programmes curriculum emphasise on values and ethics. The students learn to value their life and others and to give importance to values and customs and maintain good rapport with others like harmony in the family and society – harmony in human relationship, understanding the harmony in the family – the basic unit of human interaction. <p>Advanced Telugu:</p> <ol style="list-style-type: none"> 1. To Gain in depth knowledge in the field of Telugu Literature 2. To know the Knowledge of Dialects <p>Psychology: Psychology:</p> <p>Knowledge base of psychology students will demonstrate familiarity with the major concepts, theoretical perspectives, Empirical findings and historical trends in psychology</p> <ol style="list-style-type: none"> 2.Students will respect and use critical and creative thinking, skeptical inquiry and when possible, the skeptical inquiry, and when possible.

<p>B.A HEP</p>	<p>History Economics Political science</p>	<p>Programme outcomes refer to broad objectives of a BA Degree programme, mainly as they are relevant to the excellence and competence of the program. The faculty in each academic degree program at KVR College for Women articulates what they want students in their program to achieve in terms of knowledge, skills and values when they complete the programme referred to as by Program Outcomes. By articulating these things that students will know or be able to do, the benefits of a program of study can be clearly communicated to prospective students, to employers, and to others in the institution. The program's content, student experiences and teaching methodologies are then aligned in an optimal way to help students achieve these learning outcomes. The college employees a continuous improvement process to evaluate and improve the effectiveness of each academic program. Striving towards achieving the mission of the college the efforts are directed to equip the students with all necessary paraphernalia</p>	<p>History: History makes the students to convert the world into a better place to live in by knowing all the mistakes done in the past and also not to repeat them in future, historically, politically and economically</p> <p>Economics: The curriculum of the B.A programme mainly focuses on social interaction, especially History and Political Science. It helps the students to know history, culture, traditions of India as well as other countries in the world.</p> <p>2. The programmes with humanity subject's specifically political science throw light on effective citizenship. This enables the students to develop an ideal society with social concern and equity cantered nation. This type of learning triggers the spirit of the students to act upon social issues and participate in civic life through volunteering.</p> <p>All UG programmes curriculum emphasize on values and ethics. The students learnt to value their life and others and to give importance to values and customs and maintain good rapport with others like harmony in the family and society – harmony in human relationship, understanding the harmony in the family – the basic unit of human interaction.</p> <p>Political Science:</p> <ol style="list-style-type: none"> 1. Comprehend the basic theories of political Science structures and processes of government systems. 2. Participate as a good citizen of the society. 3. Analyze political and policy problems and participate in formulating policy options. 4. Use electronic and traditional library resources to research key local, state, national and international policy issues and present results. 5. Demonstrate critical thinking,
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			<p>including the ability to form an argument, detect fallacies, and marshal evidence, about key issues of public policy and politics.</p> <p>6 Discuss the major theories and concepts of political science and its subfields and deliver thoughtful and well articulated presentations of research findings.</p>
B.Com(CA)	B.Com (Computer Applications) and B.Com (General)	<p>Program outcomes refer to broad objectives of a degree program, predominantly as they are relevant to the excellence and competence of the program. The faculty in each academic degree program at KVR Govt. College for Women, articulates what they want students in their program to have achieved-- in terms of knowledge, skills, and values--when they complete the program referred to as Program Outcomes. By articulating these as things that students will know or be able to do, the benefits of a program of study can be clearly communicated to prospective students, to employers, and to others in the institution. The program's content, student experiences, and teaching methodologies are then aligned in an optimal way to help students achieve these learning outcomes. The college employees a continuous improvement process to evaluate and improve the effectiveness of each academic program. Striving towards achieving the mission of the college the efforts are directed to equip the students with required knowledge</p>	<p>1. To acquaint students with the basic concepts of commerce specially emphasizing upon the use of computers.</p> <p>2. Use information to support business processes and practices, such as problem analysis and decision making.</p> <p>3. Demonstrate knowledge of microeconomic and market theory as it relates to markets, firms, government policy, and resource allocation.</p> <p>4. Use quantitative and qualitative tools and methodologies to solve business problems and to take advantage of business opportunities.</p> <p>5. Employ critical thinking skills to analyze financial data as well as the effects of differing financial accounting methods.</p> <p>6. Apply knowledge of Income Tax laws and procedures to individuals and businesses</p>
B.Sc.	Maths Physics Computer science	<p>Possess a sound understanding of the theoretical foundation of various core subjects. Acquire analytical and logical thinking skills necessary to pursue higher Education. Get ability to design, implement and evaluate a computer</p>	<p>Mathematics: Develop proficiency in high level mathematical methods, Acquire analytical and logical thinking skills</p> <p>Physics: Master a broad set of knowledge concerning the</p>

		<p>based system, process, component or program to meet desired needs. Apply the knowledge of mathematics, Computer science to the solution of complex engineering problems. Promotes an in-depth exploration in specific field, current ways of thinking, new discoveries, and methodologies of the discipline. Gain employment at entry level positions based on program curriculum. After the completion of UG program the student gets eligibility to join PG programme, MCA, MBA Student will be eligible to write bank PO/Clerk examinations, Civil services and other group services examinations.</p>	<p>fundamentals in the basic areas of Physics</p> <p>Computer Science:</p> <ol style="list-style-type: none"> 1. Mastery in the core areas Algorithms, Programming Languages, Data Structures, Databases, Software Engineering and Development 2. Apply problem-solving skills and the knowledge of computer science to solve real problems. 3. Understand how technological advances impact society and the social, legal, ethical and cultural ramifications of computer technology and their usage.
B.Sc.	Maths Physics Chemistry	<p>Poses a sound understanding of the theoretical foundation of various core subjects. Acquire analytical and logical thinking skills necessary to pursue higher Education. Gain employment at entry level positions based on program curriculum. After the completion of UG program the student gets eligibility to join in PG programme, MBA, Student will be eligible to write bank PO/Clerk examinations, Civil</p>	<p>Mathematics: Develop proficiency in high level mathematical methods, Acquire analytical and logical thinking skills</p> <p>Physics: Master a broad set of knowledge concerning the fundamental in the basic areas of Physics</p> <p>Chemistry: The student after completing UG programme with Chemistry is eligible to join in M.Sc Chemistry, Technical assistants in Pharmaceutical companies and</p>
B.Sc.	Botany Zoology Chemistry	<p>Expertise in the basic sciences provides the students with opportunities to go for Higher Education and also employment opportunities in industries, diagnostics, quality control and research Promotes an in-depth exploration in specific fields, current ways of thinking, new discoveries, and methodologies of the discipline leading the way towards biological research, health professions, business, or education.</p>	<p>Botany: Understand plant diversity in terms of structure, function and environmental relationships, the evaluation of plant diversity, Plant classification, the role of plants in the functioning of the global ecosystem</p> <p>Zoology: Understand how animals have evolved, how they function, and the ways in which they interact with their environment.</p>

			<p>Chemistry: The student after completing UG programme with Chemistry is eligible to join in M.Sc Chemistry, Technical assistants in Pharmaceutical companies and diagnostic centers.</p>
B.Sc.	<p>Biochemistry Zoology Chemistry</p>	<p>Expertise in the Life sciences provides the students with opportunities to go for Higher Education and also employment opportunities in Pharma industries, R&B Labs, Clinical diagnostic Labs, quality control and research. Promotes an in-depth exploration in specific fields, current ways of thinking, new discoveries, and methodologies in the areas of biological research, health. Learn how to design and interpret experiments thereby contributing to the creation of new knowledge in the fields of biochemistry. Develop an awareness of ethical responsibilities in research.</p>	<p>Bio Chemistry: 1. Demonstrate an understanding of the chemistry, structure and function of biomolecules 2. Explain biological mechanisms, such as the processes and control of bioenergetics and metabolism, as chemical reactions 3. Explain the biochemical processes that underlie the relationship between genotype and phenotype 4. Demonstrate an understanding of the structure and function of both prokaryotic and eukaryotic cells 5. Demonstrate an understanding of the principles, and have practical experience of, a wide range of biochemical techniques (e.g. basic molecular biology, cell biology and microbiology methods, spectrophotometry, the use of standards for quantification, enzyme kinetics; macromolecular purification, chromatography and electrophoresis) 6. Analyse biochemical data, (e.g. in enzyme kinetics, molecular structure analysis and biological databases) Zoology: Understand how animals have evolved, how they function, and the ways in which they interact with their environment. Chemistry: The student after completing UG programme with Chemistry is eligible to join in M.Sc Chemistry, Technical assistants in Pharmaceutical companies and diagnostic centers.</p>

B.Sc.	Biotechnology Zoology Chemistry	<p>Expertise in the basic sciences provides the students with opportunities to go for Higher Education and also employment opportunities in industries, diagnostics, quality control and research. Promotes an in-depth exploration in specific fields, current ways of thinking, new discoveries, and methodologies in the areas of biological research, health professional development, business and Education.</p>	<p>Biotechnology:</p> <ol style="list-style-type: none"> 1. Master fundamental skills to function effectively as professionals and continue learning within the field of Biology 2. Gain fundamental Knowledge on Bio-molecules of microorganisms 3. The integrated use of Biotechnology, Botany and Chemistry to achieve the technological application of scientific and engineering principles for processing of materials by biological agents to provide goods and service for the welfare of mankind. <p>Botany:</p> <p>Understand plant diversity in terms of structure, function and environmental relationships, the evaluation of plant diversity, Plant classification, the role of plants in the functioning of the global ecosystem.</p> <p>Chemistry:</p> <p>The student after completing UG programme with Chemistry is eligible to join in M.Sc Chemistry, Technical assistants in pharmaceutical companies and diagnostic centers.</p>
B.Sc.	Home Science	<p>Understand the multidisciplinary approach to enhance the quality of life of the individuals, families and communities. Conceptualizes the students' knowledge and skill right from where the human life starts how it develops and expands in varied dimensions through different courses. Develop professional and entrepreneurial skills for social and economic empowerment.</p>	<ol style="list-style-type: none"> 1. Understand the concepts of food science and nutrition and plan to meet the nutritional requirements of family and community. 2. Understand various dimensions of human development across life span and family living with respect to society. 3. Learn about fibers and fabric construction, current trends in the field of textiles and fashion designing. 4. Understand the basics of housing, interior decoration and principles & processes of sustainable resource management. 5. Promote capacity building to extend knowledge and skills from

			laboratory to the people through effective communication and use of Technology
B.Sc.	Mathematics, Computers, Data Science	<p>Expertise in the basic sciences provides the students with opportunities to go for Higher Education . Get ability to design, implement and evaluate a computer based system, process, component or program to meet desired needs. Apply the knowledge of mathematics, Computer science to the solution of complex engineering problems. Create, select, and apply appropriate techniques, resources, and modern IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.</p> <p>.</p>	<p>Mathematics: Develop proficiency in high level mathematical methods, Acquire analytical and logical thinking skills</p> <p>Computer Science: 1.Mastery in the core areas Algorithms,Programming Languages,Data Structures, Databases, Software Engineering and Development2.Apply problem-solving skills and the knowledge of computer science to solve real problems.3.Understand how technological advances impact society and the social, legal, ethical and cultural ramifications of computer technology and their usage.</p> <p>Data Science: 1.Interpret data, extract meaningful information, and assess findings. 2.Choose and apply tools and methodologies to solve data science tasks.</p>

COURSE OUTCOMES - ARTS

DEPARTMENT OF TELUGU (ADVANCED TELUGU & TELUGU)

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1121	General Telugu I SEM I Paper	C01	By studying Ancient Poetry of Pothana, Spirituality, Telugu Tradition and Culture will be Improved.
			C02	The study of Mother Tongue and Literature Improves Personality Development.
			C03	To gain the knowledge of modern Literature.
2	2121	General Telugu II SEM I Paper	C01	Students can gain the knowledge in literature and it develops the social awareness.
			C02	It develops interest in history, tradition, culture and enhances moral values and incorporates good personality.
			C03	To inculcate inner abilities among the students through Telugu Language.
3	3121	General Telugu III SEM II Paper	C01	It will enhance the Linguistics , Letter Writing and Reading Skills
			C02	Students Vocabulary will be develop and also develop Social awareness.
			C03	Students' Psychological development will be Improved. Moral values will be developed
4	1401	Advanced Telugu I SEM I Paper	C01	Expertise in the depth of Telugu Literature
			C02	To develop special Interest towards Telugu Epics.
			C03	To develop Interest in Sanskrit Natakas.
5	2401	Advanced Telugu II SEM I Paper	C01	By reading Vemana and Neethi shathka moral values can be incorporated among students.
			C02	To gain interest in BHAVA KAVITHVAM
			C03	To understand Dalith Literature.
6	3401	Advanced Telugu III SEM II Paper	C01	Students Know about the Ancient Telugu Literature.
			C02	By Studying Telugu literature Student will develop interest in famous Telugu Writers.
			C03	Critical and analytical skills will be developed among the students.
7	4401	Advanced Telugu VI SEM II Paper	C01	Students will understand the Modern Literature.
			C02	Writings skills in different methods will be developed.
			C03	Will aware of the social movements and gain Knowledge of the Modern Literature like Feminism, Dalith and Minority Writers.
8	5401	Advanced Telugu V SEM V Paper	C01	Comprehensive knowledge of Telugu Literature.
			C02	Depth knowledge of Telugu grammar.
			C03	To gain the knowledge of Indian Languages and to know the Importance of Telugu.
9	6401	Advanced Telugu Elective Papers VI SEM VII & VIII Papers	C01	By reading Journalism, students get the job opportunities and also know about the Media. It will helpful to become a Journalist.
			C02	To gain the knowledge of Telugu Sentence formation and

				parts of Speech.
			C03	By Studying students will get idea about Translation and get opportunities in Different fields.

DEPARTMENT OF ENGLISH(ADVANCE ENGLISH)

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1411	History of English Literature-I	C01	Understand the basic structure of Old English, Middle English and various influences like Greek, Latin, French on English grammar and Vocabulary. Demonstrates the use of Classic poetic forms like Sonnet, Ode, and Ballad.
2	2411	History of English Literature-2	C01	Demonstrates familiarity with major Literary, Periods and with several leading writers of the age like Milton. Make the students familiar with Shakespearean comedy. Demonstrate a skilful use or Knowledge of major Poetic devices such as simile, metaphor
3	3411	An Introduction to English Literature-1	C01	Analyse and interpret themes found in the Literature and intellectual Movements of the period.
4	4411	An Introduction to English Literature-2	C01	The students could comprehend the major themes and characteristics of Romantic and Victorian Periods.
5	5411	An Outline of 20th Century Literature	C01	Expose the students to the Modern English Literature and the respective major writers of the Period.
6	5412	Glimpses of World Literature	C01	Acquaint students with Common Wealth writers.
7	6411	A Study of Literary Criticism	C01	Make the students familiar with Literary Critics from Aristotle to T.S. Eliot.
8	6412	Cluster Elective- VIII-A-1 American Literature	C01	Understand various Genres of Criticism and background of American Literature.
9	6413	Cluster Elective- VIII-A-2 American Literature	C01	Expose the students to the various eras of American Literature and the major writers of the Period like Robert Frost, Arthur Miller & Mark Twain
10	6414	Cluster Elective- VIII-A-3 American Literature	C01	Acquaint the students with the major writers of American Literature like O Henry, Eugene O'Neill & Emily Dickenson.

DEPARTMENT OF ENGLISH

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1101	General English paper -I	C01	To acquaint with great English writers and poets like words worth, Shakespeare and Indian writers like Mulkraj Anand. To have a glimpse of African culture through African literature. To help them improve LSRW skills through various class room and laboratory activities stressing on sound ,stress, sight and syntax. Learning various Grammar elements like Articles, prepositions ,Tenses etc.
2	2101	General English paper -II	C01	To acquaint with Indian writers like R.K.Narayan and Ruskin Bond.To help them in appreciating the beauty of the Nature through Keats poetry.Help them to excel in English language by introducing various classroom and laboratory activities.
3	3101	General English paper -III	C01	To develop the personality of students through Mahatma Gandhi's biography. To acquaint with the greatness of famous Telugu playwright Gurajada Apparao through his writing Kanyasulkam.To help them excel in English language by learning various Grammar elements.

DEPARTMENT OF URDU(ADVANCE URDU)

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1461	Urdu Fiction & Drama	C01	Knowledge on shortstories, novels and dramas and also the method of writing.
2	2461	Non Fiction Literture	C01	Able to differentiate between Fiction and non fiction Essays and articals.
3	3461	Urdu Poetry	C01	To develop the poetry skills with its phonetics. Annotation of Poems.
4	4461	Urdu Poetry and Prose	C01	Able to differentiate between Poetry and Prose and its grammer.
5	5461	History of Urdu Literture-I	C01	Improving the Knowledge about the History of Urdu Literture Part -I
6	5462	History of Urdu Literture-II	C01	Improving the Knowledge about the History of Urdu Literture Part -II
7	6461	Criticism	C01	The specific knowledge of research and criticism for the purpose of higher education
8	6462	Means of Communication	C01	For the purpose of Journalism and to develop the communication skills
9	6463	Grammer	C01	To understand the concept of language and grammer.
10	6464	Translation	C01	Option of more learning languages and to understand the other language enrichment and translate it into your own.

DEPARTMENT OF URDU(SECOND LANGUAGE URDU)

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1131	Urdu Poetry	CO1	To develop the poetry skills with its meaning, phonetics and grammar. Annotation of Poems
2	2131	Urdu Poetry and prose	CO1	Able to differentiate between Poetry and Prose and writing skills.Annotation of Poems and prose.
3	3131	Urdu Poetry and prose	CO1	Annotation of selected Poems and prose of the syllabi.

DEPARTMENT OF HISTORY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1431	Ancient India History & Culture (from earliest times to 600 A.D.)	CO1	Influence of geography on History ,survey of source,pre Historic
			CO2	A brief survey of political in ancient India ,Magadha ,Ashoka's Dharma, its nature and propagation
			CO3	Post,Mauryan period,The Kushans,The Guptas
			CO4	Post Gupta Period,Pushyabuties,south India
2	2431	Early Medieval India History & Culture(600 A.D. 10 1526 A.D.)	CO1	Pallava's, Cholas's Administration Social Economical Religious and Cultural Conditions
			CO2	Kakathiya's and Vijaya Nagar Administration Social Economical Religious and Cultural Conditions
			CO3	Muslim invasions Ghazani Ghouri Delhi Sultan nate Khilji Thutughluqs
			CO4	Impact of Islam on India and Bhakti Movements (Sufi)
3	3431	Late Medieval & Colonial History of India (1526 to 1857 A.D.)	CO1	India from 1526 to 1707 A.D: Emergence of Mughal Empire
			CO2	Administration ,Economy,Society,and Cultural Developments under the Mughals
			CO3	India under Colonial Hegemony :Beginning of European Settlements- Anglo-French Struggle
			CO4	Economic Policies of the British(1757-1857):Land Revenue settlements-commercialization of Agriculture
4	4431	Social Reform Movement & Freedom Struggle (1820 to 1947 A.D.)	CO1	Social. Religious & Self — Respect Movements, Social & Cultural Awakening
			CO2	Growth of Nationalism in the 2" Half of 19th Century
			CO3	Freedom Struggle from 1885 - 1920 A.D Moderate Phase — Partition of Bengal
			CO4	Freedom Struggle from 1920 to 1947 : Gandhiji's Role in the National Movement Revolutionary
			CO5	Muslim League & the Growth of Communalism — Partition of India — Advent of Freedom
5	5431	Age of Rationalism and	CO1	Characteristic features of Renaissance
			CO2	Geographical Discoveries and Rise of Colonialism -

		Humanism the world between 15 th to 18 th Centuries		Mercantilism and commercial Revolution
			CO3	Emergence of Nation States in Europe
			CO4	Age of Revolutions - Glorious Revolution (1688). American Revolution (1776) -French Revolution.(1789)
6	5432	History & Culture of Andhra Desa (From 12 th to 19 th Century A.D.)	CO1	Influence of. Geographical features on History, Sources — A brief survey of political history from satavahanas to Vijayanagara Period
			CO2	The Qutb Shahis — A brief survey of their political history — Society, Economy and Culture. The Asaf Jahis
			CO3	Andhra under Colonial Rule. Coming of European Merchant Companies Anglo French Rivalry in Andhra
			CO4	Early uprisings - Administration — Land Revenue Settlements — Agrarian Conditions
7	6431	History of Modern Europe (from 19 th Century to 1945 A.D.)	CO1	Industrial Revolution and the rise of Capitalism — Impact on Asia and Africa
			CO2	World between 1914 — 1945 — Rivalry among colonial powers — Imperialist Hegemony
			CO3	League of Nations — Fascism in Italy — Nazism in Germany — Militarism in Japan
			CO4	Causes and consequences of second World War — UNO.
8	6432	Cultural Tourism in Andhra Pradesh	CO1	Concepts of Tourism : Nature – Scope – Definition
			CO2	Types of Tourism : Heritage Tourism – Pilgrimage Tourism – Recreation Tourism
			CO3	History and Tourism – Heritage Sites – Definition – Ancient Monuments Preservation Act of 1904, Act of 1958 and Act of 1972
			CO4	Planning and Development of A.P. Tourism : APTDC – Aims & Objectives – Fairs & Festivals – Andhra Cuisine
			CO5	Modalities of Conducting Tourism : Field work – Visit to a site – Conduct of Research
9	6433	Popular Movements in Andhra Desa (1848 to 1956 A.D.)	CO1	Social & Self Respect Movements : Social Conditions – Kandukuri Veeresalingam, Raghupathi Venkata Rathnam Naidu, Guruzada Apparao, Komarraju Venakta Laxmana Rao, New Literary Movements : Causes
			CO2	Freedom Movement in Andhra (1885 – 1920) : Contributory Factors – Vandemataram Movement
			CO3	Freedom Movement in Andhra (1920 – 1947) : Non – Cooperation Movement – Chirala Perala, Palanadu & Pandanadipadu Activities
			CO4	Movement for Separate Andhra State (1953) : Causes – Andhra Maha Sabha – Andhra Provincial Congress Committee
			CO5	Movement for formation of Andhra Pradesh (1956) : Visalandhra Mahasabha – Role of Communists
10	6434	Contemporary History of Andhra Pradesh (1956-2014)	CO1	Social – Economic Changes in Andhra Pradesh – River Project & Infrastructural Development
			CO2	Growth of Leftist Ideology – Marxist & Radical Literature – Naxalbari Movement

			CO3	Dalit Movement – Understanding Untouchability – Education – Literature – Struggle for Identity
			CO4	Early trends towards Bifurcation : Jai Telengana Movement (1969) – Mulki Rules
			CO5	Bifurcation of Andhra Pradesh : Power Politics – Economic Discontentment – Riparian Disputes

DEPARTMENT OF ECONOMICS

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1421	Micro Economic Analysis -I	C01	Analysis of the economics behaviour of individuals, firms and markets.
			C02	Rigorous and comprehensive study of various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm in modern non-profit maximizing framework in theory and applications as well.
			C03	Deep study of the micro and macro theories of distribution, welfare economics, and general equilibrium in closed and open systems and analysis of economic behaviour under uncertainty.
2	2421	Micro Economics Analysis-II.	C01	Analysis of the economics behaviour of individuals, firms and markets.
			C02	Rigorous and comprehensive study of various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm in modern non-profit maximizing framework in theory and applications as well.
			C03	Deep study of the micro and macro theories of distribution, welfare economics, and general equilibrium in closed and open systems and analysis of economic behaviour under uncertainty.
3	3421	Macro Economic Analysis-I	C01	Analysis of the significant role of 'Money' in the economy.
			C02	Providing essential and thorough knowledge to the economics students relating to the theoretical aspects of money.
			C03	Knowledge of various approaches towards evolution of money, demand for money, supply of money, and rate of interest, inflation, agencies which creates and supplies money and operates monetary policy.
			C04	Understanding the Keynesian and post-Keynesian economics, which is a most essential part of the monetary economics.
			C05	Study of reforms introduced in financial sector, many new concepts have emerged in this sector.
4	4421	Macro Economic Analysis-II	C01	Analysis of the significant role of 'Money' in the economy.
			C02	Providing essential and thorough knowledge to the economics students relating to the theoretical aspects of money.
			C03	Knowledge of various approaches towards evolution of money, demand for money, supply of money, and rate of interest,

				inflation, agencies which creates and supplies money and operates monetary policy.
			C04	Understanding the Keynesian and post-Keynesian economics, which is a most essential part of the monetary economics.
5	5421	Indian Economy	C01	Understand the economy and the measurement of various economic variables
			C02	Explain the key concepts of the Indian economy
			C03	Understand the Indian Economy better and gain ideas to solve the problems faced by the economy
			C04	Understand the role of the Indian Economy the global context and how different factors have affected this process
6	5422	AP Economy	C01	Understand the economy and the measurement of various economic variables.
			C02	Explain the key concepts of the AP economy.
			C03	Understand the AP Economy better and gain ideas to solve the problems faced by the economy.
			C04	Understand the role of the AP Economy the global context and how different factors have affected this process.
7	6421	Public Finance	C01	Students studying Public Economics will have the knowledge on Fiscal Matters.
			C02	This course will help them to deal with the direct tax or GST effectively.
			C03	Students get knowledge about the functions of modern governments, revenue for the governments and all other financial structures of a nation.
			C04	Besides, this course will pave the way to succeed in their competitive exams.
8	6422	Descriptive Economics Statistics	C01	To understand the practical relationship between two or more variables and to estimate and forecast the values of some strategic variables and the growth rate of economic and other social variables
			C02	Providing the training to use the techniques of mathematical and statistical analysis, which are commonly applied to understand and analyze economic problems.
9	6423	Statistical Method	C01	To know the average value of any variable and to know the average deviation from the mean value of given variable
			C02	To understand the concept of probability and to understand the probable occurrence of any given event satisfying a particular law of probability.
			C03	To carry over the testing of hypothesis procedure to find the validity and the representative character of a particular sample derived from a given population.
			C04	To understand the average movement in the values of a given group of variables over a given time period. Helps in identifying the over all movement in the whole sale price index cost of living index and the movement in the changes in the human development values.

			C05	To understand the practical relationship between two or more variables and to estimate and forecast the values of some strategic variables and the growth rate of economic and other social variables
10	6424	Statistical Techniques	C01	Providing the training to use the techniques of mathematical and statistical analysis, which are commonly applied to understand and analyze economic problems.
			C02	Understanding economics with the help of quantities techniques. Hence, in this paper a student will be initiated into various economic concepts, which are amenable to mathematical treatment.

DEPARTMENT OF POLITICAL SCIENCE

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1441	Paper I Basic Concepts of Political Science	C01	Acquire Basic Concepts of Political Science
			C02	Aqu岸t with Explanatory Frameworks of Politics
			C03	To know What is the State and its origin
			C04	Equip with the knowledge of Nations and Nationalism
			C05	Aware of the Rights and Citizenship , Freedom, Equality and Justice
2	2441	Paper II Political Institutions (Concepts, Theories and Institutions)	C01	Understand the scope of Business, and its importance.
			C02	This helps them to understand the functions of Political Institutions
			C03	Make the students aware of The Purpose of Constitutional law and Theory of Separation of Powers
			C04	Understand the Institutional forms of the Modern State
			C05	Helps to comprehend the functions of Judiciary in Democratic State
3	3441	Paper III Indian Constitution	C01	Understand the ideological legacy of the Indian National movement on the Constituent Assembly
			C02	The underlying values of the Indian Constitution
			C03	Fundamental rights and Directive principles of State Policy
			C04	Evaluate the functioning of Indian Federalism
			C05	Analise Working of the Indian Constitution
4	4441	Paper IV Indian Political Process	C01	Acqu岸t with Approaches to Study the Political Processes in India
			C02	Understand Social Structure and Democratic Process
			C03	Analise the relationship between Religion and Politics
			C04	Comprehend the Party and Electoral Processes in India , Describing the Marxist Approach to politics.

			C05	Understand the Determinants of Voting Behavior in India
5	5441	Paper V Indian	C01	Understand the Traditions of Ancient Indian Political Thought
		Political Thought	C02	understand Renaissance Thought
			C03	Know about Early Nationalism
			C04	Learn about Religious Nationalism
			C05	Comprehend Democratic Egalitarianism
6	5442	Paper VI Western Political Thought	C01	know Classical Western Political Thought
			C02	Understand Early Medieval to the Beginning of Modern thought
			C03	Early Medieval to the Beginning of Modern Thought
			C04	Evaluate the functioning of Indian Federalism
			C05	Analise Working of the Indian Constitution
7	6441	Paper VII-(C): Local Self - Government in Andhra Pradesh	C01	Understand the Evolution of Local Self-Government in India
			C02	Aware of the Historical importance of Constitutional Amendments
			C03	Know the Structure and functions of Panchayati Raj in Andhra Pradesh
			C04	Analise Structure and functions of Urban local bodies in Andhra Pradesh
			C05	Understand Role of Leadership and Emerging Challenges
8	6442	Paper VIII-C-1 International Relations	C01	Comprehend the Basic Concepts of International Relations
			C02	Know the Phases of International Relations
			C03	Understand the Phases of International Relations after 1945
			C04	Know the International Organisations
			C05	understand Problems of the Third World
9	6443	Paper VIII-C-2 : Indian Foreign Policy	C01	Understand the Evolution of Indian Foreign of Policy
			C02	learn objectives, Strcture and functions of of Non-Alignment and UNO
			C03	Study India's Relation with USA and China
			C04	Understanding the India and her Neighbours
			C05	learn objectives, Strcture and functions of SAARC
10	6444	Paper VIII-C-3 Contemporary Global Issues	C01	understand the Concept of Globalization
			C02	Understand the Anchors of Global Political Economy
			C03	Know about Nation State and Globalization
			C04	Comprehend Contemporary Global issues
			C05	Acquire knowledge and consequences steps to eradicate International Terrorism

DEPARTMENT OF RURAL DEVELOPMENT

S. No.	Code	Title of the Paper	CO	Course Outcomes
1			C01	The students should know about the rural life and rural community
			C02	Will be able to identify the different problems (Agricultural, Health, Social) faced by the rural people as well as able to facilitated them to
	1471	Elements of Rural Development		minimize the problems
			C03	Might have developed grassroots planning and monitoring of a livelihood based project by participatory planning
2	2471	Rural development policies and programs	C01	The students should aware about the various extension activities running by Central & State Govt.
			C02	They know the major flagship programmes introduced by Govt. of India to eradicate the poverty, sustain the livelihood, conserve the water etc
			C03	The students will be developed an idea on how to link up the extension activities to any rural development programmes
			C04	The Students will understand the nature of Indian Rural Economy
			C05	The students will understand the concepts of entrepreneurship and importance of entrepreneurship in rural economy.
3	3471	Indian Rural Economic scene	C01	The students have in-depth knowledge on rural employment generation schemes, Govt. poverty alleviation and employment-generation scheme, rural development in annual budget, Price index; Rules, regulation, impact of WTO in Indian and rural economic
			C02	To gain the strategies to form Self Help Group for empowerment generation
			C03	The students develop coping strategy in village situation. They have a clear idea about the rural problems and prepare action plan based on available local resources
4	4471	Indian Rural social Science	C01	students should know about the different evil practices that are strongly existed in the society.
			C02	They should be acquainted with the diverse theory of criminology including Retributive theory, Psycho-analytical‘ theory, Tannenbaum’s theory, Merton’s Theory etc
			C03	students will know to find out their results against each objectives as approved by the group of external examiners
			C04	Understand the role of the India rural the global context and how different livelihood have affected this process
5	5471	Rural Development planning and management	C01	The students will learn basic principles of Management and their applications in agriculture sector.
			C02	To acquaint the students with basic principles of management and their application in Rural sector.
			C03	The students will get inspiration and motivation to adopt entrepreneurship as a career through entrepreneurship development programmes.
			C04	The planning for the sustainable Rural Development in possible with the understanding of Rural Development.

6	5472	Rural Markets	C01	The students will get exposure to rural marketing and its deferent models and strategies.
			C02	The students will understand the consumption pattern and behavior of rural consumers.
			C03	To provide hand hold exposure on agriculture -allied sectors like Diary, Apiculture, Fishery, Poultry science etc.
7			C01	The students will understand various natural resources and their importance in rural development.
	6471	Natural Resources Management	C02	The students will get exposure to various challenges and problems with regard to availability and use of natural resources.
			C03	Should know the different source of Natural resources
			C04	Will be able to prepared the watershed development plan on the basis of land capability classification
			C05	The Students will understand significant role of natural resources

DEPARTMENT OF PSYCHOLOGY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1451	General Psychology	C01	Psychology is the scientific study of behaviour, cognition, and emotion.
			C02	Both heredity and environment have their share in moulding the life and personality of the individual.
			C03	Motivation is the experience of desire or aversion.
			C04	Emotions are biological states associated with the nervous system brought on by neurophysiological changes.
			C05	Perception is the organization, identification, and interpretation of sensory information.
2	5451	Child and Adolescent Psychology	C01	Nature of human development is the scientific study of changes that occur in human beings over the course of their life span.
			C02	Stages of development
			C03	Babyhood is the true foundation age. At this time, many behaviour patterns, attitudes and emotional expressions are established.
			C04	Early childhood, defined as the period from birth to eight years old, is a time of remarkable growth with brain development at its peak.
			C05	Illness is highly susceptible in early age. Children are more prone to respiratory illness and wide spread infectious diseases.
3	5452	Abnormal Psychology	C01	Abnormal psychology is the branch of psychology that studies unusual patterns of behaviour, emotion and thought
			C02	Abnormal psychology study people's emotional, cognitive, and/or behavioural problems.
			C03	Anxiety is an emotion characterized by feelings of tension, worried thoughts and physical changes.
			C04	The somatoform disorders are a group of psychological disorders in which a patient experiences physical symptoms.
			C05	Amnesia is a form of memory loss. Some people with amnesia have difficulty forming new memories.

4	3451	Social Psychology	C01	Social psychology attempts to understand the relationship between minds, groups, and behaviours.
			C02	Attribution is the process by which individuals explain the causes of behaviour and events.
			C03	Communication is the use of sounds and words to express yourself, especially in contrast to using gestures or mannerisms.
			C04	Prejudice is an affective feeling towards a person based on their perceived group membership.
			C05	Aggression refers to a range of behaviours that can result in both physical and psychological harm to yourself, others, or objects in the environment.

**DEPARTMENT OF
COMMERCE**

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1511	FUNDAMENTALS OF ACCOUNTING - I	C01	Acquire conceptual knowledge of basics of accounting.
			C02	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
			C03	Describe the role of accounting information and its limitations.
			C04	Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
			C05	Identify and analyze the reasons for the difference between cash book and pass book balances
2	1512	BUSINESS ORGANIZATION	C01	Understand the scope of Business, and its importance.
			C02	This helps them to deal with individual and group behavior in the organization and increase their decision making capabilities
			C03	Describe the Social Responsibility and Ethics of Business
			C04	Analyse different forms of business organizations
			C05	Identify various vital documents of a company
3	1513	BUSINESS ECONOMICS	C01	Understand economics in terms of business
			C02	Evaluate supply and demand analysis
			C03	Analyze the consumer behaviour.
			C04	Interpret the factors affecting firm such as production , costs and revenue
			C05	Analyze the performance of firms under different market structures.
5	2511	FUNDAMENTALS OF ACCOUNTING - II	C01	Appreciate the need for negotiable instruments and procedure of accounting for them
			C02	Evaluate the concept of Consignment and learn its accounting treatment
			C03	Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under
			C04	Determine the ascertainment of profit under Single Entry system.
			C05	Understand the meaning and features of Non-Profit Organizations
			C01	Understand the importance of Administration & Management.

6	2512	PRINCIPLES OF MANAGEMENT	C02	Interpret the Principles of Management in traditional & modern scientific way.
			C03	Demonstrate the details about Planning and MBO
			C04	Learn about Principles of Organization & various types of
				Organizations.
			C05	Learn about Co-ordination, Control, Principles, techniques & Span of Management.
7	2513	BUSINESS ECONOMICS - II	C01	Understand economic environment, effective managerial decision-making process
			C02	Understand of the theory and analytical tools that can be used in decision-making problems.
			C03	Analyze knowledge of the economic theory with decision-making techniques.
			C04	Use economic models to isolate the relevant elements of a managerial problem, identify their relationships
			C05	Formulate them into a managerial model to which decision making tools can be applied.
8	3501	CORPORATE ACCOUNTING	C01	To impart the knowledge of concept of Corporate Accounting process
			C02	To know about the types of shares and issue of share capital and issue , redemption process of Debentures
			C03	Apply the New Companies Act provisions regarding Company accounts
			C04	Evaluate the different ways for a company to raise finances from public
			C05	Understand Profits prior to incorporation of a Company.
9	3502	BUSINESS STATISTICS	C01	Understand basic statistical concepts such as statistical collection, statistical series, tabular
			C02	Predict values of strategic variables using regression and correlation analysis
			C03	Calculate measures of central tendency, dispersion and asymmetry
			C04	Interpret the meaning of the calculated statistical indicators.
			C05	Choose a statistical method for solving practical problems.
10	3503	BANKING THEORY AND PRACTICE	C01	Describe the Origin and Growth of Banking in India
			C02	Discuss the role and functions of RBI.
			C03	Explain different types of banks and their functions.
			C04	Understanding the Banker And Customer relationship
			C05	Classify and compare the Negotiable Instruments
11	4501	BUSINESS LAWS	C01	Demonstrate, understand and communicate all the Legal Terminology of Business.
			C02	Understanding Development of Business Law in India
			C03	Outline Essentials of a valid Contract and agreements expressly declared to be void
			C04	Wagering Agreements from Contingent contracts and classify different modes of Discharge.
			C05	Acquire knowledge about Sale of Goods Act 1930
			C01	Apply the conceptual and legal knowledge about Income Tax provisions .

12	4502	INCOME TAX	C02	Computation of Income from different heads with reference to an Individual Assessee.
			C03	Identify intra and inter head set of losses and carry forward of losses
			C04	Understand clubbing of income and the term aggregation of income
			C05	Identify various deductions under section u/s80 C to 80 U
13	5501	COST ACCOUNTING	C01	Imbibe conceptual knowledge of cost accounting.
			C02	Select the costs according to their impact on business
			C03	Differentiate methods of schedule costs per unit of production and calculating stock consumption.
			C04	Identify the specifics of different costing methods and interpret the impact of the selected costs
			C05	Demonstrate mastery of costing systems, cost management systems, budgeting systems
14	5502	AUDITING	C01	Understanding Auditing as per AASB
			C02	Explain the Qualification, Disqualification, Rights and Duties of an Auditor.
			C03	Describe Audit programme ,Audit Note Book ,Audit Working Notes and Audit Markings
			C04	Define Internal Audit and internal control, its meaning and objectives, types of Vouchers
			C05	Describe the meaning and role of Audit Committee with reference to Audit Reports.
15	5503	COMMERCIAL GEOGRAPHY	C01	Understanding of the Earth -Solils -Environment - Water Resources - Mines - Rivers etc.
			C02	To impart knowledge Major Crops and Food and Non- Food Crops - Importance of Agriculture .
			C03	To know about the Indian Forestry and Forest Rights Act, 2006.
			C04	India-Minerals and Mining - Renewable and non Renewable - Uses of Minerals
			C05	Water Resources - Rivers - Experinces of India and Andhra Pradesh.
16	5504	E-COMMERCE	C01	Able to information technology and E-commerce CO2 can understand various multimedia applications
			C02	Would learn the various authentication security issues in E-commerce
			C03	Able various forms of the E-commerce applications and its usages and security issues
			C04	Would be able to understand computerized accounting
			C05	To impart knowledge of Payment gateways in E-Commerce Business
17	6501	MARKETING	C01	Students can identify the core concepts of rural and urban markets and take different marketing challenges and opportunities
			C02	Students can improvise their organization in micro and macro environment
			C03	Students can segment the products as per the market conditions

			C04	Helps students to identify various psychological consumer behavior for their produce products
			C05	It allows the students to apply various strategies in producing the products
18	6502	GOODS AND SERVICE TAX(GST)	C01	To learn basic concepts of Goods and Service Tax
			C02	Will gain knowledge of GST planning for Business
			C03	Will understand and equip by the filling tax returns
			C04	Will have some knowledge on establishments and taxes on them
			C05	It allows the students to apply various strategies in producing the products
19	6503	MANAGEMENT ACCOUNTING	C01	Acquire knowledge and techniques of Management Accounting
			C02	Prepare various analytical financial statements.
			C03	Understand the use of related financial information relevant to the various users
			C04	Identify the operational efficiency and managerial effectiveness.
			C05	Analyze the reasons for change in profitability and financial position of the firm.
20	6504	TALLY ERP - 9	C01	To provide and overviews of various types of Accounting software
			C02	To give indepth knowledge of Tally Accounting Software
			C03	To learn about data entry in the software
			C04	Generation of Reports and Tax Filing
			C05	Exporting and Saving of Reports
21	4541	Accounting for Service Organisations	C01	Students will able to understand to do accounts in service Organizations
			C02	Understanding Electicity, Bank & Insurance Accounts
			C03	Understanding valuation of Income from Profession
			C04	Students are able to understand differences between double entry and double accounting system

COURSE OUTCOMES - SCIENCES

DEPARTMENT OF MATHEMATICS

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1221	Differential Equations	C01	Understand how to differentiate linear and non-linear Differential Equations
			C02	Understand some basic definitions, Find the envelopes and orthogonal trajectories of the family of different surfaces
			C03	Understand How to resolve the differential equations into rational and solve it.
			C04	Solve equations for p, x and y, explain Clairaut's equation
			C05	To find solution of higher-order linear differential equations with variable coefficients, Solves the Cauchy-Euler equations
2	2221	Three Dimensional	C01	Understand geometrical terminology for angles, triangles,

		Geometry		quadrilaterals and circles, measure angles using a protractor, use geometrical results to determine unknown angles
			C02	Define parallel lines, Recognize and create parallel lines on graphs and with equations, define perpendicular lines, recognize and create graphs and equations of perpendicular lines
			C03	Understand the equation of the tangent plane and use the tangent plane as a local linear approximation to the surface
			C04	Understand how to use cylinder and cone, Identify the shape of the surface of a cylinder and cone, Measure the surface area of a cylinder and a cone, finding volume of a cylinder and cone
3	3221	Abstract Algebra	C01	Trained in the Basic concepts of Groups, Subgroups
			C02	Apply the learned concepts to Normal subgroups, Homomorphism and Cyclic groups
			C03	Attain knowledge in Rings, Sub rings, Ideals
			C04	Further learn Isomorphisms and polynomial rings
4	4221	Real Analysis	C01	Understand the concepts of limits, Continuity, Discontinuity, Uniform Continuity
			C02	Analyze Derivatives and apply Mean value Theorems
			C03	Understand the Concept of Sequences and Series and interpret series Tests
			C04	Identify Riemann Integral functions
			C05	Applicable for our professional, social and intellectual lives.
5	5221	Linear Algebra and Vector Calculus	C01	Vector Spaces, Sub Spaces, Linear Combination, Dimension of Vector Space and Subspace. Definitions, Operations on vectors and scalars
			C02	Rank and Nullity of Linear Transformations, Invertible Linear Transformations. Ordinary derivatives of vectors, Continuity, Gradient, Divergence, Curl
			C03	Sylvester's Law of Nullity and Cayley Hamilton Theorem. Vector Integration
			C04	Inner Product Spaces.
6	5222	Ring Theory and Vector Calculus	C01	Understand the concepts of vectors and scalars and will be able to perform the calculations on dot, cross and triple products
			C02	Understand space curves and partial derivatives of vectors as well perform calculations on gradient, divergence and curl operators
			C03	Analyze line, surface and volume integrals and estimate the change of order of integration as well as the change of variable in double integration Green's Theorem in a plane, Gauss Divergence theorem, Stokes theorem & Applications of these theorems.
			C04	Understand the application of Green's Gauss and Stokes theorems
7	6221	Numerical Analysis	C01	Analyze and detect different form of errors and also will be able to solve Algebraic and Transcendental equations using different methods

			C02	Interpolate the functions within the range using equally and un equally spaced points
			C03	Upon completion of this module the student should : 1.Understand the Least Squares Method 2.Be able to curve fit data using several types of curves(straight line, second degree parabola, power curve, exponential curve) 3.Obtain numerical approximations to the first and second derivatives of certain functions 4.Calculate a definite integral using an appropriate numerical method
			C04	To solve the solution of a linear system of equations using direct or iterative methods
			C05	To solve the selected class of differential equations using Taylor, Picards, Euler_s, Runge Kutta, Adams and Milne_s
8	6222	Integral Transforms	C01	Applications of Laplace transforms to Differential Equations
			C02	Applications of Laplace transforms to Integral Equations
			C03	Applications of Fourier Transforms
			C04	Applications of Finite Fourier Transforms.
9	6223	Advanced Numerical Analysis	C01	Curve Fitting
			C02	Numerical Differentiation
			C03	Numerical Integration
			C04	Solution of simultaneous Linear system of Equations
			C05	Numerical solution of ordinary differential equations
10	6224	Project work	C01	Communicate mathematics effectively.
			C02	Demonstrate a computational ability in solving a wide array of mathematical problems
			C03	Differentiate between valid and invalid mathematical reasoning
			C04	Develop mathematical ideas from basic axioms, Utilize mathematics to solve theoretical and applied problems
			C05	Identify applications of mathematics in other disciplines and in society

DEPARTMENT OF PHYSICS

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1231	Mechanics & Properties of matter	C01	To understand the physical significance of gradient of scalar field, Divergence and curl of vector fields. To understand the application of Gauss's, Stokes & Green's theorems.
			C02	To understand the concept of variable mass system and motion of rocket. Collisions in 2D & 3D. Rutherford's scattering experiment and its importance.
			C03	To understand Euler equations. Gyroscope and Analysis of precessional velocity of symmetric top.
			C04	To understand the relation between elastic moduli. Classification of beams and the load effect.

			C05	Basic understanding of central force with Examples. Derivation of Kepler's laws
			C06	To understand the concepts of inertial and non-inertial frames Lorentz transformations, length contraction & time dilation
2	2232	Waves & Oscillations	C01	To understand the analysis of simple harmonic motion and its characteristics & Lissajous figures. Determination of acceleration due to gravity $-g$ by using compound pendulum and Rigidity modulus by using Torsion pendulum
			C02	To understand damped & forced oscillations. To get the concepts of relaxation time, quality factor, logarithmic decrement.
			C03	To understand Fourier theorem and analyze square wave & saw tooth wave using it.
			C04	To understand longitudinal vibration and transverse vibrations in a bar. Vibrations of a Tuning fork
			C05	To understand the transverse vibrations in a string. Laws of vibrations in a string. Harmonics & overtones.
			C06	Transport phenomena To understand different methods of production of ultrasonic's & applications
3	3232	Wave Optics	C01	To understand aberration & methods of minimizing aberration. Concepts of Coma, Astigmatism & Achromatism
			C02	To understand principle of superposition. Concept of interference, use of Newton's rings. Michelson interferometer.
			C03	To understand the difference between Fresnel & Fraunhofer Diffraction. Concepts of half period zones
			C04	Understanding polarization and different methods of conversion of unpolarized light into polarized light. Nicol prism & Double refraction
			C05	Applications of lasers Basic principle of holography To understand different types of fibers & principle of fiber communication
4	4232	Thermodynamics & Radiation Physics	C01	To understand concept of Thermodynamics and the kinetic theory of gases.
			C02	To understand Carnot's engine & its efficiency. II law of Thermodynamics. Concepts of Entropy & use of T-S diagrams
			C03	To understand the derivation of Maxwell's thermodynamical relations. Importance of specific heat of gases. Joule Kelvin effect
			C04	To understand the concept of low temperature physics. Various experiments related to low temperature physics. To know Adiabatic demagnetization,
			C05	To get the idea of various laws of quantum theory of radiation. Measurement of temperature of sun using pyrometers
5	5231A	Electricity, Magnetism & Electronics	C01	To understand Gauss' law in electrostatics and its application. Use of dielectrics. Importance of electric polarization.

			C02	Application of Biot-Savart's Law & to understand Hall effect. Basic concept of Faraday's & Lenz's laws. Understanding of self & mutual inductance working
			C03	To understand the effect of AC current through pure resistance, capacitance & inductance & in combination. Importance of A factor. To understand the fundamental Maxwell's equations & Pyonting theorem.
			C04	Basic concepts of band theory of solids, understanding of PN junction & zener diodes. To understand CB, CE, CC configurations of transistor. Determination of h parameters.
			C05	To understand digital electronics concepts. Conversion of binary to decimal, hexa & octal systems & viceversa. Importance of Demorgan's theorem in digital electronics. Half & full adder circuits construction.
6	5232A	Modern Physics	C01	To understand basic theories pertaining to atomic model. To know coupling schemes. Importance of Raman effect & its experimental setup. Applications of Raman effect.
			C02	To understand matter waves, De-Broglie's theory of matter waves. Heisenberg's uncertainty principle & experimental verification.
			C03	To know Basic ideas of nucleus. Understanding of liquid drop model & shell model. To get the idea of Alpha Beta decay & various theories. Neutrino hypothesis
			C04	To Understand crystal structure. Importance of Bragg's law of diffraction Diffraction methods. To understand concept of superconductivity, types of superconductors & its applications.
7	6231A	Renewable Energy	C01	Basic knowledge of different forms of energy resources and its role in economic.
			C02	Study of the effects of environmental degradation, global warming, nuclear power generation.
			C03	To get the idea of energy conversion methods viz solar, wind, hydro, hydrogen energy.
			C04	Analysis of conversion of bio mass into fuels, biomass plants types and their design.
8	6232A	Solar, Thermal, & photovoltaic aspects	C01	Study the basics of solar radiations and solar intensity measurements.
			C02	To understand the types of solar collectors like Flat plate collector and concentrating types & their efficiencies.
			C03	To get the concepts of physics behind solar cell. Understand the solar cell fabrication, various types of cells.
			C04	Arrangement of solar module and array. To understand the use of bypass and blocking diodes in solar modules.
			C05	To understand the construction solar water heating systems their

				types. Passive & active space heating, solar thermal power generation. Applications of solar PV systems, its installation maintenance guidelines. PV market analysis.
9	6233A	Wind, Hydro & Ocean energies	C01	Introductory knowledge of wind generation meteorology of wind. Types and classification of wind energy converters.
			C02	Understanding the construction and working of wind turbine and its characteristics.
			C03	Understand the technology process of Ocean, thermal & tidal energy conservations.
			C04	To understand micro, mini & hydro power systems Getting the concept of site selection & design for power stations.
			C05	To understand the principle of OCET systems. Its advantages & disadvantages. Understand the origin & nature of tidal energy. Applications of wave energy
10	6234A	Energy storage devices	C01	To understand the need of energy storage. Different modes of energy storage.
			C02	Understanding the electrochemical energy storage system. Role of carbon nano-tubes in electrodes.
			C03	To understand the magnetic & electric energy storage systems. Significance of super capacitors.
			C04	Idea of fuel cells, difference between batteries & fuel cells. Efficiency and advantages of fuel cells.
			C05	To get the knowledge of types of fuel cells & their applications.

DEPARTMENT OF CHEMISTRY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1201	PAPER – I: INORGANIC, ORGANIC & PHYSICAL CHEMISTRY	C01	Student acquires understanding over the preparation, properties and uses of diborane, silanes, silicones, hydrazine and hydroxylamine.
			C02	Students acquire comprehensive knowledge on classification of oxides, preparation, properties of interhalogen compounds and organolithium and Grignard compounds.
			C03	Student acquires an understanding over the concepts involved in the mechanism of organic reaction.
			C04	Student acquires understanding over the preparation, properties and uses of alkenes and alkynes.
			C05	Students gain knowledge on symmetry elements of crystals, Bragg's law and crystal defects.
2	2201	PAPER – II: INORGANIC, ORGANIC & PHYSICAL CHEMISTRY	C01	Students understand the concept of adsorption, types, properties and uses of colloids and knowledge over theories of chemical bonding.
			C02	Students understand the concepts of Stereochemistry.
			C03	Students gain understanding over molecular structure of benzene its chemical reaction and mechanism.

			C04	Students gain knowledge on vanderwaals equation, Joule Thomson effect, Liquid crystals and their applications.
			C05	Students gain understanding on Raoult's law, types of solutions, Nernst distribution law
3	3201	Inorganic & Organic Chemistry	C01	Students gain knowledge on the electronic configuration and properties of d-block elements and various theories of bonding in metals.
			C02	Students gain knowledge on the electronic configuration and properties of f-block elements and structural properties of metal carbonyls.
			C03	Students will know about the preparation, properties and uses of halogen and hydroxyl compounds.
			C04	Students will know about the preparation, properties and uses of aldehydes and ketones.
			C05	Students gain knowledge on various colligative properties and their experimental determination.
4	4201	Spectroscopy & Physical Chemistry	C01	Students gain knowledge on principles of absorption and electronic spectroscopic techniques.
			C02	Students gain knowledge on principles of Infra-red & Proton magnetic resonance ($^1\text{H-NMR}$) spectroscopic techniques.
			C03	Students will know about the preparation, properties of carboxylic acids and their derivatives and active methylene compounds – AAE, ME.
			C04	Students acquire an understanding of the concepts of electrochemistry – Transport number, Conductance etc.,
			C05	Students acquire an understanding of the concepts of electrochemistry – types of electrodes, potentiometric titrations and principles and applications of phase rule.
5	5201	Inorganic, Physical & Organic Chemistry	C01	Students acquire knowledge over concepts of co-ordination compounds, their nomenclature and isomerism.
			C02	Students acquire knowledge over concepts of magnetic properties and stabilities of metal complexes.
			C03	Students gain understanding on preparation, properties and uses of nitro alkanes, NEF, Mannich and Michael addition reactions.
			C04	Students gain knowledge on the types of amines, the preparation properties and uses of aromatic amines.
			C05	Students gain understanding over the concepts of thermodynamics, Carnot's cycle, adiabatic and isothermal processes, entropy and its significance.
6	5202	Inorganic, Organic & Physical Chemistry	C01	Students acquire knowledge about various biological importance of various inorganic elements.
			C02	Students gain understanding the concepts of chemical kinetics and reaction mechanism of photo chemical reactions.
			C03	Students gain knowledge on synthesis and properties of Pyrrole, Pyridine, Furan and Pyridine.
			C04	Students gain understanding on the structure of glucose, fructose and mechanisms of interconversions.

			C05	Students acquire knowledge on synthesis, properties of aminoacids and classification, structure of proteins.
7	6201	Analytical methods in Chemistry	C01	Students gain knowledge on principles of volumetric and gravimetric analysis.
			C02	Students understand the concepts of errors, significant figures, Precision, accuracy standard deviation and confidence limit.
			C03	Students gain knowledge on the principles of Solvent extraction and Ion exchange.
			C04	Students acquire knowledge on the classification, instrumentation of Paper chromatography.
			C05	Students acquire knowledge on the classification, instrumentation of Column and Thin layer chromatography.
8	6202	Organic Spectroscopic Techniques	C01	Students gain knowledge on the concepts of Beer's law and the quantitative determination of Metal ions.
			C02	Students gain knowledge on concepts of UV- Visible spectroscopy.
			C03	Students gain knowledge on concepts of nuclear magnetic resonance spectroscopy.
			C04	Students gain knowledge on concepts of nuclear magnetic resonance spectroscopy.
			C05	Students gain knowledge on concepts of Mass spectrometry.
9	6203	Advanced Organic Reactions	C01	Students gain knowledge on principles of Organic photochemistry and photoreduction reaction.
			C02	Students acquire knowledge on Norrish, photo fries rearrangement, Dipimethane rearrangement reactions.
			C03	Students gain knowledge on the protection of different functional groups.
			C04	Students acquire knowledge on Mannich, Shapiro, stark-enamine, wittig reactions and umpolung.
			C05	Students acquire knowledge on new synthetic reactions.
10	6204	Pharmaceutical and Medicinal Chemistry	C01	Students gain understanding of basic terminology of pharmacy.
			C02	Students gain knowledge on the nomenclature and classification of drugs.
			C03	Students gain understanding of antibiotics, cardiovascular drugs and antimicrobials.
			C04	Students acquire knowledge about Antipyretics, analgesics, diuretics, anti-inflammatory drugs and antidiabetics.
			C05	Students gain awareness on HIV-AIDs, causes, prevention, tests, treatment and antiretroviral drugs.

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

S. No.	Code	Title of the Paper	CO	Course Outcomes
1			C01	Understand the computer, its characteristic, limitations and its usage.

	1211	Computer Fundamentals and Photoshop	C02	Analyze number system.
			C03	Work with different input and output devices.
			C04	Image edit, modify, background and saving using Photoshop.
			C05	Work with tool box, layers and filters.
2	2211	Programming in C	C01	Develop programs using the basic elements like control statements, Arrays and Strings. Solve the memory access problems by using pointers.
			C02	Understand dynamic memory allocation using pointers which is essential for utilizing memory.
			C03	Understand code reusability with the help of user defined functions and pointers.
			C04	Develop programs using enumerated data types, function pointers and nested structures.
			C05	Understanding the concept of files and implement the basics file handling mechanisms.
3	2212	Introduction To Data Science With _R‘	C01	Develop programming abilities in R.
			C02	Demonstrate proficiency in statistical analysis of data.
			C03	Develop the ability to build and assess data based models.
			C04	Execute statistical analysis with professional statistical software.
			C05	Demonstrate skill in data management.
4	3211	Object oriented programming using java	C01	To implement Object oriented programming paradigms using Java language.
			C02	To implement multiple classes using Inheritance and how to access arrays and Strings in Java.
			C03	Understand thread concept and use different methods to create threads.
			C04	Understand exception handling concept and to create user defined exceptions.
			C05	Analyze platform independent application runtime environment and choose appropriate runtime environment to create GUI and Web applications using Java language.
5	2531	Office Automation Tools	C01	Office automation refers to the varied computer machinery and software used to digitally create, collect, store, manipulate, and relay office information needed for accomplishing basic tasks.
			C02	Office automation can get many tasks accomplished faster.
			C03	It eliminates the need for a large staff. Less storage is required to store data.
				Multiple people can update data simultaneously in the event of changes in schedule.
6	5211	Data Base Management Systems (B. Sc)	C01	Understand the fundamental concepts of a database system.
			C02	Analyze database requirements and determine the entities involved in the system and their relationship to one another.
			C03	Develop the logical design of the database using data modeling concepts such as entity-relationship diagrams.
			C04	Create relational tables from entity-relationship diagrams.

				Manipulate a database using SQL and develop programming skills in SQL and PL/SQL.
7	5531	Data Base Management Systems(BA)	C01	Understand the fundamental concepts of a database system.
			C02	Analyze database requirements and determine the entities involved in the system and their relationship to one another.
			C03	Develop the logical design of the database using data modeling concepts such as entity-relationship diagrams.
			C04	Create relational tables from entity-relationship diagrams.
			C05	Manipulate a database using SQL and develop programming skills in SQL and PL/SQL.
8	5212	Software Engineering	C01	Basic knowledge, understand, analyse and design of complex systems.
			C02	Ability to apply software engineering principles and techniques.
			C03	To produce efficient, reliable, robust and cost-effective software solutions.
			C04	Ability to understand and meet ethical standards and legal responsibilities.
9	6211	Web Technologies	C01	Use fundamental skills to maintain web server services required to host a website.
			C02	Select and apply mark-up languages for processing, identifying, and presenting of information in web pages.
			C03	Use scripting languages and web services to transfer data and add interactive components to web pages.
			C04	Incorporate best practices in navigation, usability and written content to design websites that give users easy access to the information they seek.
10	6212	Foundation Of Data Science	C01	Develop programming abilities in R.
			C02	Demonstrate proficiency in statistical analysis of data.
			C03	Develop the ability to build and assess data based models.
			C04	Execute statistical analysis with professional statistical software.
			C05	Demonstrate skill in data management.
11	6213	Big Data	C01	Big data helps an organization understand its customers better, and helps it narrow down the target audience, thus improving their marketing campaign.
			C02	Hadoop provides massive storage for any kind of data, enormous processing power and the ability to handle concurrent tasks or jobs.
			C03	It provides high throughput access to application data and Hadoop Map Reduce provides YARN based parallel processing of large data sets.
			C04	Map Reduce or YARN, are used for scheduling and processing. Hadoop Map Reduce executes a sequence of jobs and used for data warehousing.
12	6214	Data Analytics	C01	Help mitigate risks from fraud for clients and organizations and also to make better decisions.

			C02	Understand probability distribution, which provides the probabilities of occurrence of different possible outcomes in an experiment.
			C03	It is the practice of extracting information from existing data sets in order to determine patterns and predict future outcomes and trends.
			C04	This technology helps to manage the time with continuous innovations taking place in all aspects of lives.
12	6531	PHP & MY SQL	C01	Working with MySQL databases and use PHP to Create, modify, and delete MySQL tables, manipulate MySQL records, retrieve database records.
			C02	Use arrays over objects and array handling functions
			C03	Use Hidden Fields to save state, Redirecting the user, Sending Mails, Working with File Uploads.
			C04	Cookies enable to store the session information on the client side.
			C05	Understanding the Image-Creation Process, Necessary Modifications to PHP, Drawing a New Image, Getting Fancy with Pie Charts, Modifying Existing Images.

DEPARTMENT OF BOTANY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1321	Paper-I: Microbial Diversity, Algae and Fungi	C01	To know the origin and evolution of life, the student learns formation of earth in the universe and existence of life on earth
			C02	To know about microbial diseases regarding to various micro organism in man, animals and plants.
			C03	To gain knowledge on algae for growing the populations with its lot of economic importance as food, fodder and feed etc.
			C04	To gain knowledge of fungi as pathogen causing many famines as in the past and to overcome and manage the fungal disease and protect the life forms on the earth.
2	2321	Paper – II: Diversity of Archaeogoniates and Plant Anatomy	C01	To know the structure of non vascular plants
			C02	To know the importance of mass plants
			C03	To know the structure of vascular plants
			C04	To know the importance of Anatomy
3	3321	Paper-III: Plant Taxonomy and Embryology	C01	To gain knowledge on characteristics and categorization of plants.
			C02	Students can have an idea on various types of classifications based on the morphological and anatomical characters.
			C03	Students can gain knowledge on categorising plants into respective Polypetalae families
			C04	To understand the reproductive parts of flower, their role in

				pollination and fertilization, differences in types of embryogeny and endosperm development.
4	4321	Paper-IV: Plant Physiology and Metabolism	C01	To gain knowledge on role of water, enzymes in plant metabolism
			C02	To understand Transpiration, Ascent of sap and Photosynthetic mechanisms in various types of plants
			C03	Students gain knowledge on types and modes of Respiration, Nitrogen metabolism and lipid metabolism
			C04	Students get awareness on types and role of phytohormones in plant metabolism, Dormancy mechanisms and vernalization
5	5321	Paper-V: Cell Biology, Genetics and Plant Breeding	C01	Students going knowledge regarding the unit of life that is cell, types, functions of the various organelles of the cell
			C02	The student know the DNA Structure which is very useful at molecular levels of genes in various aspects of life quality of genetical characters and forensic methods of the society etc.
			C03	Selection of the best genetic cell characters by advanced molecular techniques in genetics and in crop improvement.
			C04	Plant breeding techniques with help of biotechnology at molecular level breeding with variety of special environmental Habbarder.
6	5322	Paper-VI: Ecology,Phytogeography and Biodiversity	C01	To have the knowledge of Environment
			C02	To understand the importance of Climatic factors like light, temperature, in related to growth of plant
			C03	To know about the Phytogeography
			C04	To have the knowledge of Biodiversity
7	6321	Paper-VII: General Elective : Plant Tissue Culture And Biotechnology	C01	To know about the various methods of Tissue Culture
			C02	To know the importance of Tissue Culture .
			C03	To know the importance of Biotechnology.
			C04	To know the applications of Biotechnology
8	6322	Cluster Elective I: Plant Diversity & Human Welfare	C01	To understand the levels and value of biodiversity
			C02	Impacts of the loss of biodiversity, Conservation methods & different organizations associated with it.
			C03	To understand the concepts of Environmental Impact Assessment& Solid and liquid waste management
			C04	Role of plants and microbes in human welfare
9	6323	Cluster Elective II: Ethnobotany and Medicinal Botany	C01	To understand the concept of ethno botany
			C02	Role of ethnobotany in modern medicine with plant examples like Rauvolfia, Trichopus, Withania etc.,
			C03	To know the need of protecting the traditional knowledge of the tribal people
			C04	To understand the concept of different systems of medicine(AYUSH)
10	6324	Cluster Elective III: Pharmacognosy	C01	Importance of pharmacognosy, Classification of crude drugs & drug evaluation methods
			C02	Complete knowledge of secondary metabolites

		&Phytochemistry	C03	Role of Phytochemicals in medicine
			C04	To gain knowledge on use of different enzymes, proteins and amino acids as drugs.

DEPARTMENT OF ZOOLOGY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1311	ANIMAL DIVERSITY OF INVERTEBRATES	C01	Identify and classify invertebrate organisms from Protozoa to echinodermata
			C02	Students will gain Dissection skills
			C03	compare different systems in invertebrates.
2	2331	ANIMAL DIVERSITY OF VERTEBRATES	C01	Students will be able to classify the different vertebrate organisms
			C02	compare different systems in vertebrates.
			C03	Students will gain Dissection skills in vertebrates
3	3331	CYTOLOGY, GENETICS AND EVOLUTION	C01	Identify various cellular organelles and describe their structure and function.Explain the structure and Functions of cell wall
			C02	Understanding basic principles of inheritance and Analysis of Mendelian inheritance in man.Mechanism of cell division and chromosomal segregation and slide
			C03	Understanding about the concept of Evolution.
4	4331	EMRYOLOGY PHYSIOLOGY AND ECOLOGY	C01	Understand about the various stages in development starting from zygote to an adult.
			C02	Identify stages of development in an embryo
			C03	Describe the physiology of basic processes in human body
			C04	Advanced degree programs in Ecology can lead to a career as a veterinarian, zoologist, university professor or independent research
5	5331	ANIMAL BIOTECHNOLOGY	C01	Explain the importance of Biotechnology in daily life
			C02	Students can get knowledge on various methods developed for transgenic organisms.
			C03	can gain interest in forensic science,as they can get good knowledge on various blotting techniques.
6	5332	ANIMAL HUSBANDRY	C01	Understand about the various stages in development of chicks and animals.
			C02	Gain knowledge about various diseases in poultry and animal husbandry,their control measures.
			C03	Can get knowledge in management of apoultry farm and a animal husbandry unit
7	6331	IMMUNOLOGY	C01	Have an awareness of current research in the field and possible applications of their knowledge in Immunology
			C02	Basic understanding on key components of the innate and adaptiveimmune responses and insight into which cell types and organs are involved in an immune response.
			C03	Explain the Role of Antigens & Antibodies in Immunity &understand Significance of antigen antibody reactions

			C04	Differentiate between different Hypersensitivity states
8	6332	PRINCIPLES OF AQUACULTURE	C01	Students can demonstrate the basic technical skills necessary for work in aquaculture and fisheries.
			C02	can gain good knowledge on various types of fishes and fish culture systems.
			C03	Have awareness in construction of fish pond and can start their own fish pond.
9	6333	AQUACULTURE MANAGEMENT	C01	Create local and global solutions to complex challenges in aquaculture and fisheries
			C02	Can gain good feeding techniques, and have knowledge on various feeding methods.
10	6334	POST HARVEST TECHNOLOGY	C01	Have knowledge of impact of aquaculture and fisheries on society, the economy and natural environment
			C02	can have awareness on various fish preservation and marketing methods

DEPARTMENT OF HOME SCIENCE

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1341	HSC 101- PSYCHOLOGY & PERSONALITY DEVELOPMENT	CO1	Understanding of various psychological processes underlying human behaviour and its core concepts.
			CO2	Understanding of basic cognitive process of learning, memory and forgetting
			CO3	Grasp the importance of emotions, motivation, emotional intelligence in shaping personality
			CO4	Stimulate the student to think, introspect and work on to develop their Personality
2	1342	HSC 102 - HUMAN PHYSIOLOGY	CO1	Learn about the structure ,functions of cell,classification of bones and joints, function of nervous system
			CO2	Get awareness about functions of various organs in digestive system, kidneys, and mechanism of urine formations.
			CO3	Understanding of structure and functions of heart, composition and functions of blood,
			CO4	Understanding reproductive systems, endocrine glands, and role of hormones
3	1343	HSC 103 - HEALTH HYGIENE MICROBIOLOGY	CO1	Acquire knowledge about Dimensions, Determinations &Indicators of Health
			CO2	Learn classification ,growth, nutrition and reproduction of various microorganism
			CO3	Know about Hygiene &its importance in daily life methods of sterilization &disinfections
			CO4	Will gain basic understanding of Injection, Immunity &Immunization Schedule
4	2341	HSC 201- INTRODUCTIO	CO1	Gain the Knowledge of definitions and interdisciplinary nature,Scope,Domains and stages Human of development.

		N TO HUMAN DEVELOPMENT	CO2	Understand the concepts and Principles of growth Role of Heredity and Environment in Human development, Stages of Life span – Developmental tasks are learned.
			CO3	Will gain knowledge about Prenatal development – stages, Pregnancy - signs and symptoms, Care during pregnancy
			CO4	To get awareness about Stages of delivery & types of birth, care of new born baby, Reflexes and Stimulation.
5	2342	HSC 202 BIOCHEMISTRY	CO1	Understand the importance of biochemistry as the basis for nutrition..
			CO2	Understand chemistry of major nutrients and physiologically important biomolecules.
			CO3	Learn about macro nutrients in terms of their composition, properties, classification, and metabolism
			CO4	Comprehend on properties, classification, nature and mode of action, and factors affecting enzyme activity.
6	2343	HSC 203 BASIC NUTRITION	CO1	Understanding of role of macro nutrients, sources, and functions deficiency disorders & clinical manifestation
			CO2	Learn the role of Vitamins their food sources ,function & deficiency diseases
			CO3	Students will learn minerals-series, function & deficiency diseases of them.
			CO4	Learn knowledge about energy value of food, energy requirements of the body
			CO5	Understand the interrelationship between of food, nutrition and health
7	3341	HSC 301 FOOD SCIENCE	CO1	Understand the basic concepts of food science its applications in processing of food.
			CO2	Learn the importance of the food groups its classification, food pyramid and phytonutrients
			CO3	Comprehend the details of structure, composition, nutritive value and processing of various food groups- cereals, pulses, fruits, vegetables etc.
			CO4	Understand the methods of food preparation in terms nutrient retention and losses and ways to improve the nutritional value of food
8	3342	HSC 302 HOUSING FOR BETTER LIVING	CO1	To gain knowledge about importance, types and function of house.
			CO2	Understand the principles, orientation site and factor to be considered in planning a house.
			CO3	Awareness in designing space, practical considerations about water supply, electricity, plumbers and drainage facilities.
			CO4	Understanding about financial -bank schemes of state & central government.
			CO5	Get awareness of safety measures to be taken in home.
9	3343	303- TEXTILE FIBERS AND	CO1	Understand the importance, classification and general properties of textile fibres

		FABRIC		
			CO2	Learn about composition, manufacturing process, properties and uses of Natural fibers and artificial fibers in detail.
			CO3	Understanding the process of yarn construction, spinning and its classification .
10	4341	HSC 401 FOOD PRESERVATION AND PROTECTION	CO1	Learn about causes and factors affecting food spoilage
			CO2	Understand basic principles and methods of food preservation
			CO3	Comprehend on Food Adulteration- its types, harmful effects and ways to identify
			CO4	Learn about food laws and standard and general principles in the use of food additives.
11	4342	HSC 402 INTERIOR DECORATION	CO1	Understanding about importance of elements in Interior Design
			CO2	Learn about elements of art, colours schemes, principles of design and their application in home.
			CO3	Learn about arrangement, care and maintenance of accessories and furniture
			CO4	Learn about types of flower arrangement, selections and preservation of flowers by different methods
12	4343	403-CLOTHING CONSTRUCTION	CO1	Learn about the introduction, different methods of fabric construction- weaving, Knitting and felting.
			CO2	Understand about Aims, kinds and classification of different finishes.
			CO3	Gain the Knowledge and skill in garment construction.
13	5341	HSC 501 FAMILY DYNAMICS	CO1	Learn about importance of family and its types
			CO2	Understands the importance of stages of family life cycle
			CO3	Learn about problem and adjustments in marriage, sex, finance and in laws in family life
			CO4	Understand the importance function, factors to be considered in different types of marriage.
			CO5	Understanding of legal aspects of marriage and family
14	5342	HSC 502 - LIFE SPAN DEVELOPMENT	CO1	Understanding basic concepts, stages of human life
			CO2	Learn about different areas of development from infancy to adolescence.
			CO3	Understand the importance, characteristics, Identity development and problems of Adolescence.
			CO4	Comprehend the role of Family, School and Peer on overall development of children
15	5343	503-TEXTILE FINISHES	CO1	Develop knowledge and skill in finishing of fabrics in Dyeing and Printing.
			CO2	Gain knowledge of Traditional Textiles of India and Indian embroidery
			CO3	Understand about selection of clothing for different age groups.
			CO4	Learn principles of laundering, reagents, stain removal and dry cleaning.
16	5344	HSC	CO1	Gain knowledge about basic terminology, concepts, human

		504.CONSUMER BEHAVIOUR AND ECONOMICS		wants and standard of living.
			CO2	Get awareness on sources, types, functions, supplementing its family income
			CO3	Awareness on money management in the home
			CO4	Student will learn the importance,types of savings and investment
17	5345	HSC505 FAMILY AND COMMUNITY NUTRITION	CO1	understand the importance and planning of balanced diet for family and community
			CO2	Learn about nutritional requirement during pregnancy and lactation.
			CO3	Gain knowledge about nutritional requirement during childhood, adolescence and old age.
			CO4	Learn about methods of nutritional assessment and role of national and international organisation in developing nutritional status of the community
18	5346	506-HOME SCIENCE EXTENSION	CO1	To understand the concept of extension and communication its relevance for self & national development.
			CO2	Learn the importance of Teaching and Learning Process, Steps and Principles of Extension teaching, formal and informal education.
			CO3	To gain knowledge about Classification, Factors affecting selection and use of different Extension teaching methods
			CO4	Will gain Concept, Elements and functions Principles and Barriers of Communication.
19	6341	HSC 601 THERAPEUTIC NUTRITION	CO1	Understand principles of therapeutic nutrition, Modify the normal diet for therapeutic purposes and special feeding method
			CO2	Learn the nutritional requirement and intervention in under and over nutrition
			CO3	Understand the etiology, clinical features and dietary management in common disorders and diseases like GI, CVD, Kidney and liver etc.
			CO4	Understand the role and responsibilities of dietician and significance of dietary counselling
20	6342	HSC 602- FASHION DESIGN AND MERCHANDISE	CO1	To get awareness on Fashion terminology, Factors influencing fashion, Fashion cycles and Fashion adoption theories
			CO2	Understand the principles and elements of design and croqui.
			CO3	Role and responsibility of the merchandiser Principles and Factors influencing merchandising practices are learned.
			CO4	Understand the importance of merits and demerits of readymade clothing, care and storage of clothes.
21	6343	HSC 603. RESOURCE MANAGEMENT	CO1	Learn the importance characteristics, role and types of Resources.
			CO2	Using available resources judiciously with emphasis on maximization and conservation.
			CO3	Inculcate the skills of identifying, creating, selecting and using

				available resources.
			CO4	Understand the scientific application of the process of management in the effective use of resources.
22	6344	HSC 604 A EARLY CHILDHOOD EDUCATION	CO1	Enlighten students about need, importance and objectives of early childhood education
			CO2	Learn about various types of preschools- Nursery, Kindergarten and need and requirement for establishing preschool
			CO3	Learn about types of curriculum and plan theme based curriculum planning for preschool.
			CO4	Understand about play-way method and importance of home school relation in child's development
23	6345	HSC 604 B SOCIOLOGY	CO1	Gain the concept of sociology its importance with other social sciences, society and culture
			CO2	Understanding the types, agents, agencies and stages of socialization
			CO3	Learn about classification, characteristics of different social groups
			CO4	Understanding different features, characteristics of village and urban community
			CO5	Get awareness about problems of women in modern India
24	6346	HSC 604C- COMMUNITY DEVELOPMENT	CO1	Get awareness about definitions, principles of community development.
			CO2	Gain knowledge about the role of leader, leadership styles, types and methods.
			CO3	Understand the elements of diffusion, adoption and participatory rural appraisal techniques.
			CO4	Get awareness about the developmental programmes in India.

DEPARTMENT OF BIOCHEMISTRY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1301	Cell biology, Carbohydrates, Lipids and Proteins	CO1	Comprehensive knowledge of Cell biology
			CO2	understand water role in biological processes and measurement of PH
			CO3	Knowledge on carbohydrates Classification , Biological Importance of carbohydrates
			CO4	Knowledge on Lipids Classification , Biological Importance of Lipids
			CO5	Knowledge on Amino acids, Classification , Peptides, Biologically important peptides
			CO6	Knowledge on Proteins, Classification and Biological Importance of proteins
2	2301	Nucleic acids and Biochemical Techniques	CO1	Knowledge on Structure of Nucleic acids, Types of DNA, RNA
			CO2	Define and classify Structures of porphyrins
			CO3	Understand principles and applications of centrifugation,

				chromatography techniques like Paper, Thinlayer, Gel filtration, Ion exchange and Affinity. Electrophoresis
			CO4	Understand the principles and application Colorimetry and Spectrophotometry, Tracer techniques
			CO5	Describe outlines of Intermediary metabolism, methods of investigation
3		Enzymology and Bioenergetics	CO1	Understand Classification of Enzymes and Structure
			CO2	Understand Influence of Physical factors and Inhibitors on Enzyme activity
			CO3	Understand Outline of mechanism of enzyme action, Regulation of enzyme activity
			CO4	Understand Bioenergetics: Thermodynamic principles
			CO5	Understand Biological Oxidations in Mito chondria
4	4301	Intermediary Metabolism	CO1	Understand theConcept of anabolism and catabolism, Carbohydrate Metabolism
			CO2	Understand theConcept of LipidMetabolism
			CO3	Understand theConcept of Amino acid Metabolism
			CO4	Understand theConcept of Nitrogen cycle, Non-biological and biological nitrogen fixation
			CO5	Understand theConcept of Metabolism of Nucleic acid and heme
5	5301	Physiology, Clinical Biochemistry and Immunology	CO1	Understand and analyze the concepts Digestion and absorption of carbohydrates, lipids and proteins. Composition of blood
			CO2	Understand Endocrinology- organization of endocrine system. Classification of hormones
			CO3	Understand theConcept of Nutritional Biochemistry
			CO4	Understand theConcept of Clinical Biochemistry
			CO5	Understand the concepts of Innate and Aquired Immunity, Haptens and monoclonal antibodies
6	5302	Basic Microbiology	CO1	Understand the concepts of History and Development of Microbiology
			CO2	Able to differentiate between prokaryotic and eukaryotic cells and explain the charecteristics of bacteria, virus, fungi, protozoa, algae
			CO3	Understand the viruses Poxvirus and Poliovirus. Bacterial Diseases- Cholera and TyphoidProtozoan Diseases
			CO4	Understand and analyze the concepts phycology; General characteristics of algae
			CO5	Understand and analyze the concepts General characteristics of fungi and Economic Importance of Fungi
7	6301	Microbiology and Molecular Biology	CO1	Comprehensive knowledge of Micro biology
			CO2	Understand and analyze the concepts of DNA replication and enzymology
			CO3	Understand and describe the process of Protein synthesis and regulation of Prokaryotic gene expression
			CO4	Explain Gene regulation through Operon concept, and regulatory elements

			CO5	Understand the concepts of fermentation technology, Applied Biochemistry
8	6302	Haematology	CO1	Understand the concepts Laboratory Preparation in Haematology
			CO2	Understand the concepts Haemoglobin synthesis. Various haemoglobins. Haemopoietic system of the body. Blood cell counts
			CO3	Understand the concepts Haemostasis and Haematological Diseases
			CO4	Understand the concepts Automation in Haematology
			CO5	Understand the concepts Immunohaematology and Blood banking
9	6303	Clinical Microbiology	CO1	Understand the concepts Clinical Microbiology
			CO2	Understand the concepts Clinical Bacteriology Laboratory & Staining methods
			CO3	Understand the concepts Culturing of Microorganisms and Identification of Bacteria
			CO4	Understand the concepts Clinical Mycology and Virology
			CO5	Understand the concepts Diagnostic Serology
10	6304	Biochemical Correlations in Diseases	CO1	Understand the concepts Inborn errors of metabolism
			CO2	Understand the concepts Nutritional Deficiency and Life style diseases
			CO3	Understand the concepts Hormonal Imbalances and Autoimmune diseases
			CO4	Understand the concepts Classification of infectious agents
			CO5	Understand the concepts Infectious diseases

DEPARTMENT OF BIOTECHNOLOGY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1311	Cell Biology and Microbiology	CO1	Comprehensive knowledge of Cell biology
			CO2	Able to differentiate between prokaryotic and eukaryotic cells and explain the characteristics of bacteria, virus, fungi, protozoa, algae
			CO3	Knowledge on control of microorganisms by physical and chemical sterilization methods
			CO4	Explain about methods of cultivation and preservation of microorganisms
2	2311	Macromolecules, Enzymology and Bioenergetics	CO1	Define and classify carbohydrates, aminoacids, lipids and structures
			CO2	Define and classify proteins and nucleic acids
			CO3	Define holoenzyme, apoenzyme, coenzyme, cofactor and classify enzymes
			CO4	Define Biological Oxidations, Reduction potential, Free energy
			CO5	Describe energy transformations in living systems
3	3311	Biophysical	CO1	Understand principles and applications of centrifugation,

		Techniques		chromatography techniques like Paper, Thinlayer, Gel filtration, Ion exchange and Affinity.
			CO2	Understand the principles and applications of Electrophoresis, Colorimetry, Spectrophotometry.
			CO3	Principles of tracer technique, advantages and limitations, applications of isotopes in biotechnology.
			CO4	Measurement of radioactivity
4	4311	Immunology	CO1	Understand the concepts of Innate and Aquired Immunity, Haptens and monoclonal antibodies
			CO2	Describe the immunological reactions like agglutination, Immunoprecipitation and apply the knowledge in Immunodiagnostics.
			CO3	Understand immune cells and organs, antigen- antibody reactions
			CO4	Describe MHC complex, Antibody diversity, Hypersensitivity and autoimmunity
			CO5	Transplantation Immunology, Cancer and Immune system
5	5311	Molecular Biology	CO1	Understand and analyze the concepts of DNA replication and enzymology
			CO2	Understand and describe the process of Protein synthesis and regulation of Prokaryotic gene expression
			CO3	Explain Gene regulation through Operon concept, and regulatory elements
6	5312	Recombinant DNA Technology	CO1	Understand the concepts of cloning, DNA sequencing, Vectors, Hosts and Tools of r-DNA technology and Tools of r-DNA technology
			CO2	Comprehend cloning , construction of cDNA library and different types of vectors
			CO3	Understand and analyze the concepts of PCR, Blotting techniques, c-DNA & Genomic library and apply the knowledge in the production of recombinant products,DNA Fingerprinting
7	6311	Plant and Animal Tissue Culture	CO1	Plant tissue culture Introduction to cell and tissue culture laboratory facilities, sterilization methods in tissue culture, Tissue culture media
			CO2	Protoplast culture, Somatic hybridization, Micro-propagation
			CO3	Invitro fertilization and Embryogenesis
			CO4	Concept of Gene Therapy, Application of transgenic animals
8	6312	Plant Tissue Culture	CO1	Physio- chemical conditions for propagation of plant cells and tissues; Protoplast isolation, fusion, cultivation, cybridization.
			CO2	Direct gene transfer methods, Invitro fertilization – Ovary and ovule culture, clonal propagation, somatic embryogenesis. Invitro production of secondary metabolites
			CO3	Role of plant Tissue culture in Indian Agriculture, Production of Transgenic plants
9	6313	Animal Tissue Culture	CO1	Study Animal cell culture media, preservation of cell lines, transgenic animals

			CO2	Describe Stem cells, IVF and Embryo transfer technique
10	6314	Biosafety, Bioethics, IPR, Genetic counselling	CO1	Principles, Role of Institutional Biosafety committee; Assessment of pharmaceutical products like drugs/Vaccines.
			CO2	Introduction, Principles, Theories and its applications
			CO3	Protection of Plant varieties and IPR
			CO4	Identify Genetic disorders, Prenatal diagnosis and Gene therapy

PROGRAMME OUTCOMES & COURSE OUTCOMES (PG)

Programme	Programme Outcomes	Programme Specific outcomes
M.A.TELUGU	Empower the knowledge of Telugu Language and literature. Differentiate the method of old and modern poetry thoughts.	Improve writing skills like Short stories, stories, Novels etc. Understand the old society and comparison with modern trends.
M.A.ENGLISH	To provide an overall view of English Language and Literature To explore the relevance of the study of literature to harmonious existence of humanity	1. Development of mastery of English Language and Literature 2. Exposure to the Indian English Literature in translation 3. To make the students acquaint with the nuances of language learning 4. Knowledge of Phonetics and Grammar
M.A HISTORY	Being a Subject of Social Science, History has its only value in society and human life it help the students to develop their ethical and society value. They could gather knowledge about the heritage and tradition of their own county and the others.	There is huge potentiality in the future of a history students various options are opened to History students to choose their careers. First of all, history is subject from primary education level to higher study, so they can engage themselves in teaching professions in primary, Secondary and post secondary school. History is also helpful for those who are all competitive exam.
M.A ECONOMICS	Acquire comprehensive knowledge and skills.Make use of the knowledge in an innovative manner.Effectively apply the knowledge and skills to address various issues.	Understand the basic concepts like National Income, Poverty, Employment, International trade, Fiscal and Monetary policies, Economic conditions of various historic periods, Satavahana's Foreign trade, numismatics, agriculture economy from ancient period to modern times and their role in administration for formulating relevant policies for effective utilisation of resources and tackling various problems like unemployment and improved standard of living.To analyse the economic importance of various sectors like agriculture, industry

		and service sector in different dynasties that influence administration like Chola administration (local self Government), Mauryan administration (Urban governance) and British administration.
M.COM (PROF)	Equip students with financial knowledge and skills related to current scenario	Provides specialisation in the field of Accountancy, Management, Capital Market, Marketing and E-Commerce
M.Sc Chemistry	The students after completing M.Sc Chemistry program they may go for further research either in India and they are also eligible to write Civil Services examinations, Bank Probationary Officers examination.	The student after completing M.Sc Chemistry may join in Ph.D in Chemistry from various Universities in India and abroad. They get eligibility to write NET, SLET and they are eligible to work as Chemists in Pharmaceutical companies, Forensic Science, Pollution control board, Quality control, Geology and Mines department etc., Non-governmental and Governmental departments.
M.Sc Botany	The student will understand how to analyse the basic concepts, methods, scopes, classifications, characterisation, diseases and economic importance of microorganisms, plant cell signalling in comparison with neural signalling helps in gaining knowledge of neurons. Cell cycle and its regulation is the basic understanding of a cell and its divisions. Design solutions from medicinal plants for health problems. Apply the knowledge of mushroom cultivation technology & Organic farming techniques as an alternative & effective life supporting system.	Students know the microorganism structure, non vascular and vascular groups, importance of taxonomy and plant nomenclature and different physiological processes of plant. Understand the crucial role of signalling in both plants and animal cells. Learn different techniques which are used in molecular biology studies in research. Understand the importance of high energy compounds. Understand the role of plants in human welfare. Gain knowledge about the various plants of economic use. Know the importance of transgenic plants & herbal medicine as an alternative medicine for allopathy.

COURSE OUTCOMES(PG)

DEPARTMENT OF MA TELUGU

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	101	Sampradaya sahithya adhyanam ISEM IPaper	CO1	Students will get an idea about ancient literature by reading Traditional text.
			CO2	Students get a chance to know about Nannaya ,Thikkanna Mahabharatha and Pothna Mahabagavatham.
2	201	II SEM	CO1	Study of Traditional Text
			CO2	Student get Knowledge and information about the Literature of 15 th and 16 th Centuries.
3	102	Prachina Sampradya Adhyana rithulu	CO1	Students will know the characteristics of great writings Like sathaka,Bhakthi,Neethi and all other sathkas.
			CO2	To know the Different forms of Ancient &Modern Literature.
4	202	II SEM	CO1	Ancient Traditional study provides.The information about the characteristic Features of Kavya, the writers of kavithrayam and popular vaggeyakarulu.
			CO2	Students will know about the great writers.
5	103	Samanya Basha vignanam	CO1	Students will understand ancient language, origin of language and relation of other Languages.
			CO2	Students get clarity of Language.will get job oppurtunities in the field of speech therapy and social worker will know about difference between Different Dialects.
6	203	II SEM	CO1	Students brought to known about the changes in Languages of different Periods.
			CO2	Student will aware of the function of Official Language.
7	104	Janapada sahithyamu	CO1	Expertise in the Folk Literature
			CO2	To know about the Folk stories,Folk Songs and different forms.
8	204	II SEM	CO1	To know about Folk Traditions,Proverbs,Riddles,Art,Believes and speeches
			CO2	To gain the Knowledge ofFolktales of Andhra Pradesh,Folk lore of AP.
9	105	Aadhunica Telugu Sahithya Vikasam	CO1	To Know the Modern Language And inculcate the inner abilities among the students.
			CO2	To gain the knowledge of Novels,Natakas and Poetric stories.
10	205	II SEM	CO1	To know the modern Litetereture and modern Poetry.
11	106	Telugu pathrika rangam – Rachna vidanamu	CO1	By reading Journalism students get the job Opportunities and also knows about the Media.Itwill helpful to become a Journalist
12	206	Anuvada vidanalu-Naipunyaalu.	CO1	By Studying students will get idea about Translation .And get opportunities in Different fields.

DEPARTMENT OF MA ENGLISH

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1311	Poetry I	CO1	Background study to English Poetry
			CO2	Knowledge of poetry of Homer The Iliad, Canto I
			CO3	Metaphysical Poetry
			CO4	Knowledge of Romantic Poetry
2	1321	Drama I	CO1	Knowledge of Sophoclean Drama
			CO2	Dramatic art of Christopher Marlowe
			CO3	Dramatic art of Shakespeare
			CO4	Congreve and Oscar Wilde's art
3	1331	Novel I	CO1	Background study to English Novel
			CO2	Knowledge of epistolary novel
			CO3	Social novel with reference to Dickens
			CO4	Psychological novel and Existentialism
4	1341	Indian English Literature I	CO1	Knowledge of Indian English Literature
			CO2	Phases of Indian English Literature
			CO3	Modern English Poetry
			CO4	Modern English Drama
			CO5	Tagore's Dramatic art
5	1351	Phonetics and Grammar	CO1	Knowledge of English Phonetics
			CO2	English Pronunciation
			CO3	Grammar and usage
6	2311	Poetry II	CO1	Background to Victorian Poetry
			CO2	Knowledge of Modern English Poetry
			CO3	Knowledge of Sprung Rhythm
7	2321	Drama II	CO1	Background to English Drama
			CO2	Drama with a social purpose
			CO3	Imagery and Symbolism in Dramatic art
			CO4	Absurd Drama
8	2331	Novel II	CO1	Types of English Novel
			CO2	Knowledge of Bildungsroman and stream of consciousness
			CO3	Greene and Golding's greatness
9	2341	Indian English Literature II	CO1	Postcolonial Indian English Novel
			CO2	Contemporary Indian English Novel
10	2351	American Literature I	CO1	Periods of American Literature
			CO2	American Literary Movements
			CO3	Gothic to Modern writings
			CO4	African American Literature
11	2361	Communication Skills and Soft Skills	CO1	Acquaintance of LSRW skills
			CO2	Technicalities of communication
			CO3	Ways to overcome Mother Tongue Influence
			CO4	Improve communication dynamics
12	3311	Commonwealth Literature I	CO1	Concept of Commonwealth Literature
			CO2	Commonalities of the Third World Writers
			CO3	Concept of homelessness

			CO4	Postcolonial literature
13	3321	American Literature II	CO1	Romantic Movement in American Literature
			CO2	Morrison's The Bluest Eye
			CO3	Analysis of American Drama
			CO4	American Novel
14	3341	Literary Criticism and Critical Theory I	CO1	Knowledge to appreciate a literary text
			CO2	Classical criticism
			CO3	Concept of tragedy and comedy
			CO4	Modern literary criticism
15	3351	Introduction to Linguistics	CO1	Characteristics of English Language
			CO2	English phonology and morphology
			CO3	Transformation rules and Semantics
			CO4	Pragmatics and applications
16	4311	Commonwealth Literature II	CO1	Literary History of Commonwealth Literature
			CO2	African Poetry
			CO3	Canadian Literature
			CO4	The "angst" of Commonwealth writers
17	4321	Literary Criticism and Critical Theory II	CO1	Marxist influence on literature
			CO2	Psychoanalytical theories of Freud
			CO3	Structuralism and its impact
			CO4	Indian Aesthetics and Rasa Theory
18	4331	English Language and Teaching	CO1	Methods of English Language Teaching
			CO2	Bilingual, Grammar Translation Method, etc.
			CO3	Communicative Language Teaching
			CO4	British and American English
19	4341	Project Work	CO1	Orientation to research work
			CO2	Selection of a research topic
			CO3	Preparation of Dissertation
			CO4	Knowledge of citations and bibliography

DEPARTMENT OF MA HISTORY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1611	Historical Methods	CO1	Definition, Meaning, Nature and Scope of History
			CO2	History and its Relation with other Disciplines
			CO3	Types of Sources
			CO4	Planning of Thesis – Chapterization
2	1621	History of Ancient India (upto 650 A.D.)	CO1	The South Indian Kingdom
			CO2	Reconstructing of Ancient India History
			CO3	Republics and the Rise of Empire
			CO4	The Age of Guptas.
3	1631	History of	CO1	Survey of Sources of Medieval History of India.
			CO2	The Khilji dynasty (1290-1320).
			CO3	Invasions of Timur and Breakup of Delhi Sultanate.

		Medieval India	CO4	Society – Economy – Religious policy under Sultanate
4	1641	History of Modern Andhra Pradesh	CO1	Impact of British rules on Andhra Renaissance
			CO2	Political awakening in Telangana – Freedom Struggle in Telangana
			CO3	Communist Parties and Revolutions in Telangana. Armed Struggle in Telangana
			CO4	Development of Telugu Language and Literature and contribution of Andhra to Other cultures
			CO5	Separatist movement of Andhra Pradesh Formation
5	1651	History of Ancient Civilization of the World	CO1	Copper age Civilization, Paleolithic age, Old Stones Civilization
			CO2	Indus Civilizations, Development of the Civilization Social Causes Civilization etc.
			CO3	Mesopotamian Civilizations, Social Economical Religious condition
			CO4	Egyptian Civilization Causes Civilization etc
6	2611	Historiography	CO1	Traditions of Historical Writing
			CO2	History and Enlightenment
			CO3	Indian Historiography (Ancient and Medieval Period)
			CO4	Modern Indian Historiography and Approaches
7	2621	History of Ancient India 650 to 1200	CO1	Interpreting the Period
			CO2	Polity and Economy
			CO3	Society and Religion
			CO4	Literature, Art and Architecture
8	2631	History of Medieval India 1526 -1750 AD	CO1	Source of Mughal History
			CO2	Akbar – Rajput, Religious and Deccan Policy
			CO3	Aurangzeb and his Religious and Deccan Policy
			CO4	Socio – Economic Conditions – Agrarian Structure
9	2641	History of Ancient Civilizations of the World	CO1	Classical Civilizations – Origin and growth of Civilizations
			CO2	Greek Civilization Mycenaean's and Macedonia - Society and economy
			CO3	Roman Civilization – Society and Economy.
			CO4	Chinese Civilization – Society and Economy early science and technology Religion
			CO5	Ancient Civilization in America
			CO6	Byzantine Civilization Judaism
10	2651	National Movement	CO1	The Great Revolt of 1857
			CO2	Birth of Indian National Congress and its Activities upto 1905. Constitutional Development
			CO3	Gandhian Era- Non – Cooperation –Khilafat – Civil Disobedience Salt Satyagraha Movement
11	3611	History of Modern India (1750-1857)	CO1	Advent of Europeans – Anglo French Conflict
			CO2	British Supremacy in Bengal – Robert Clive
			CO3	Lord Dalhousie – Doctrine of Lapse, British Paramountcy on

				Princely states in India Resistance to British Rule
			CO4	Constitutional development in India from 1773-1858
12	3612	History of Modern World (1789 - 1919)	CO1	French Revolutions causes course and results
			CO2	Nemplan Bonaparte
			CO3	Vienna Congress
			CO4	Causes for the world war
13	3613	History of Modern East Asia (China 1850-1950)	CO1	Historical Background – Advent of Europeans
			CO2	Empress Dowager Tzu – Tsi – Modernisation of Army, Navy, Industrialization, Education
			CO3	Reform Movement in China
			CO4	Kuomintang – Reforms of Nanking Government
14		Paper: Leaders of Modern India	CO1	Social
			CO2	Early Political Leader of india
			CO3	Extremists
			CO4	Gandhian Era
15		Optional History Application in Tourism	CO1	Characteristics of Tourism
			CO2	Designing of Tourism – Marketing and Communications

DEPARTMENT OF MA ECONOMICS

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1711	Micro Economic Analysis -1	CO1	Analysis of the economics behaviour of individuals, firms and markets.
			CO2	Rigorous and comprehensive study of various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm in modern non-profit maximizing framework in theory and applications as well.
			CO3	Deep study of the micro and macro theories of distribution, welfare economics, and general equilibrium in closed and open systems and analysis of economic behaviour under uncertainty.
2	1721	Macro Economic Analysis -1	CO1	Analysis of the significant role of 'Money' in the economy.
			CO2	Providing essential and thorough knowledge to the economics students relating to the theoretical aspects of money.
			CO3	Knowledge of various approaches towards evolution of money, demand for money, supply of money, and rate of interest, inflation, agencies which creates and supplies money and operates monetary policy.
			CO4	Understanding the Keynesian and post-Keynesian economics, which is a most essential part of the monetary economics.
			CO5	Study of reforms introduced in financial sector, many new concepts have emerged in this sector.
			CO1	Understanding the role and functions of the Government in an economy have been changing with the passage of time.

3	1731	Public Economics-1	CO2	. Study of policies and operations which involve the use of tax and expenditure measures while budgetary policy is an important part to understand the basic problems of use of resources, distribution of income, etc.
			CO3	. Understanding fiscal institutions – tax systems, expenditure programs, budgetary procedures, stabilization instruments, debt issues, levels of government, etc., which raise a spectrum of issues arising from the operations of these institutions. Further, the existence of externalities, concern for adjustment in the distribution of income and wealth, etc. require political processes for their solution in a manner, which combines individual freedom and justice.
4	1741	Indian Economy	CO4	Understand the economy and the measurement of various economic variables
			CO5	Explain the key concepts of the Indian economy
			CO6	Understand the Indian Economy better and gain ideas to solve the problems faced by the economy
			CO7	Understand the role of the Indian Economy the global context and how different factors have affected this process
5	1751	Mathematical Methods	CO1	Helps to understanding the role of mathematics in economic and in economic analysis.
			CO2	Gives a clear understanding of the utility theory, the indifference curve approach and consumer equilibrium analysis
			CO3	Provide a clear idea of different types of market and equilibrium in the respective market mathematically.
			CO4	Explain the Operations Research model like Input-Output model and Linear Pogramming model for obtaining and optimum solution under complex economic situations.
6	2711	Micro Economics Analysis-II.	CO1	Analysis of the economics behaviour of individuals, frimes and markets.
			CO2	Rigorous and comprehensive study of various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm in modern non-profit maximizing framework in theory and applications as well.
			CO3	Deep study of the micro and macro theories of distribution, welfare economics, and general equilibrium in closed and open systems and analysis of economic behaviour under uncertainty.
7	2721	Monetary Economics	CO1	Analysis of the significant role of 'Money' in the economy.
			CO2	Providing essential and thorough knowledge to the economics students relating to the theoretical aspects of money.
			CO3	Knowledge of various approaches towards evolution of money, demand for money, supply of money, and rate of interest, inflation, agencies which creates and supplies money and operates monetary policy.
			CO4	Understanding the Keynesian and post-Keynesian economics, which is a most essential part of the monetary economics.

			C05	Study of reforms introduced in financial sector, many new concepts have emerged in this sector.
8	2731	Federal Finance	CO1	Students studying Public Economics will have the knowledge on Fiscal Matters.
			CO2	This course will help them to deal with the direct tax or GST effectively.
			CO3	Students get knowledge about the functions of modern governments, revenue for the governments and all other financial structures of a nation.
			CO4	Besides, this course will pave the way to succeed in their competitive exams.
9	2741	International Trade & Finance	CO1	Providing a deep understanding about the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital – both short term and long term – at the global level.
			CO2	Preparing for the relevance and limitations of the principles, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both at the national and international levels as also their welfare implications at macro level and the distribution of gains from trade to North and South.
			CO3	. Access to train the students about the various issues about the trade and likely consequences on income, employment and social standards and possible policy solutions as the world will move into the 21st century.
10	2751	Statistical Method	CO1	To know the average value of any variable and to know the average deviation from the mean value of given variable
			CO2	To understand the concept of probability and to understand the probable occurrence of any given event satisfying a particular law of probability.
			CO3	To carry over the testing of hypothesis procedure to find the validity and the representative character of a particular sample derived from a given population.
			CO4	To understand the average movement in the values of of a given group of variables over a given time period. Helps in identifying the over all movement in the whole sale price index cost of living index and the movement in the changes in the human development values.
			CO5	To understand the practical relationship between two or more variables and to estimate and forecast the values of some strategic variables and the growth rate of economic and other social variables
11	3711	Environmental Economics	CO1	To study about Environment learn the inter linkages factors between environment and economics
			CO2	Emphasizing on the mitigating measures of Global warming and climate change
			CO3	Students will learn about pollution control and importance of forestation.

			C04	Enriching knowledge on conservation and preservation of natural resources 6.Awareness creation to protect the ecology and eco-system
12	3712	Economics Of Growth Models	CO1	Getting known with the theories of growth and development, social and institutional aspects of development, importance of agriculture, and the rationale and pattern of industrialization in developing countries.
			CO2	Getting knowledge of infrastructure-linkages, role of international trade, importance of domestic macroeconomic policies, investment criteria, and relevance of planning have been included in the paper.)
13	3713	Agricultural Economics	CO3	It gives an understanding of the relationship between agriculture and industry agriculture and economic development.
			C04	Enumerates the different form size its relationship with different investment pattern strategies the practice of Green Revolution and different farming practices for profitability in agriculture.
			C05	Explain the strategies followed under Five Year Plans, agricultural production achievements, the functioning of Public Distribution System and the food security measures adopted in India.
			CO6	Gives a clear idea about the liberalisation in India and it's reward taking place in the scenario of World Trade Organisation functioning the importance of patenting in agriculture and the contribution made by NABARB in reducing the rural indebtedness.
			CO6	Provides an understanding of the agricultural price policy in India, the recommendations of National Commission on agriculture, crop insurance policies marketing and credit policies.
14	3714	Computer fundamentals	CO1	Demonstrate the use of mathematical software and solve simple mathematical problems.
			CO2	Explain the needs of hardware and software required for a computation task.
			CO3	State typical provisions of cyber law that govern the proper usage of Internet and computing resources.
			C04	Explain the working of important application software and their use to perform any engineering activity.
15	3715	Industrial Economics	CO1	Provides knowledge about the industrial development and Employment chances created and highlights the inter linkages between industrialisation and Agriculture industrialisation and productivity and industrialisation and foreign trade.
			CO2	Explain the reason for the industrial locations and bring out the approaches for the development of backward districts.
			CO3	List out the trendz in industrial productivity labour productivity in India and the quality control measures adopted.
			C04	Explain the role of industrial policy and financial matters with regard to the industrial sickness and capacity utilisation in

				industry.
			C05	Gives an overview of different management systems and the rationalization of industries.
16	4711	Economics of development and planning	CO1	Getting known with the theories of growth and development, social and institutional aspects of development, importance of agriculture, and the rationale and pattern of industrialization in developing countries.
			CO2	Getting knowledge of infrastructure-linkages, role of international trade, importance of domestic macroeconomic policies, investment criteria, and relevance of planning have been included in the paper.)
			CO3	Demonstrate the understanding of the difference between growth and development, major growth theories, the measurement of inequality, significance of agriculture in developing countries, poverty and population issues facing the world, international trade, and importance of foreign aid.
17	4712	AP Economy	CO1	Understand the economy and the measurement of various economic variables.
			CO2	Explain the key concepts of the AP economy.
			CO3	Understand the AP Economy better and gain ideas to solve the problems faced by the economy.
			C04	Understand the role of the AP Economy the global context and how different factors have affected this process.
18	4713	Financial Markets and Institutions	CO1	Increases the understanding of different capital market instruments market reforms under the SEBI regime.
			CO2	Provides knowledge about the trends in domestic savings, contributions of financial intermediaries and the development of secondary markets.
			CO3	Gives a clear understanding of financial derivatives.
			C04	Explains the market volatility and its relationship with the liquidity in the stock market.
			C05	Explains about the capital issues by its types and by its different sizes.

DEPARTMENT OF MCOM

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	M.CO M(P) 101	Managerial Economics	CO1	This helps the students to understand the managerial decision making process and the role of marginal analysis in decision making
			CO2	Knowledge of demand analysis helps them in taking demand decisions
			CO3	Students can deal with various production functions
			C04	Students can analyze different cost functions
			C05	Students can identify the characteristics relating to perfect and

				imperfect market structure
2	M.CO M(P) 102	Accounting for Service Organizations	CO1	1.Students will able to understand to do Accounting in Service Organisations
			CO2	2.Understaning the Electricity, Bank and Insurance Accounts
			CO3	3.Understanding valuation of Income from profession
			CO4	4.Students are able to understand differences between double accounting and double entry system
3	M.CO M(P) 103	Management and Organisation Behaviour	CO1	Introduction about management
			CO2	Understand about organisational behavior
			CO3	learn planning and organisational culture
			CO4	learn about role of motivation and groups in organization
			CO5	able to understand the basis of power,politics,conflicts and Negotiations
4	M.CO M (p) 104	Entrepreneurship and Small Business Management	CO1	The students will able to understand the evolution of the concept of Entrepreneur-Functions,Growth,Problems and Development
			CO2	would be able to understand Factors Affecting Entrepreneurial Growth and Entrepreneurship Development programs
			CO3	Able to understand small Enterprices -Role of small Enterprices in Economic Development and their problems,MSME Act
			CO4	would be able to understand Institutional Finance to Entrepreneurs
			CO5	Able to understand women,Rural entrepreneurship and Micro-Finance
5	M.CO M (P) 105	Quantitative Techniques for Business Decisions	CO1	Know the applications of Index numbers their Importance constructing index numbers for data problem analysing
			CO2	know the importance of serveys,Properties of sampling ,Sampling methods and their application in market serveys
			CO3	Describe the application of samples, Probability and their application in collecting data and problem solving
			CO4	understand the concepts of types of analysis averages,Applications and their importance in collecting and analysing data
6	M.CO M (P) 201	Business Environment & Government Policy	CO1	Students can analyse Business Environment and policy Environment
			CO2	Students can take a factors facilitating and impeding globalization and liberalization in India
			CO3	Students can identify the changing role of public and private sectors
			CO4	Students can overcome the challenges faced in FDI & Students can adopt trade policies and consequences WTO for India
7	M.CO M (P) 202	Human resource Management	CO1	Students can proper planning and can use various Job analyses
			CO2	Allows students in managing performance and Empowering human resource
			CO3	Students can understand how to maintain Employee relationship
			CO4	Knowledge management helps students in virtual and learning organization

8	M.CO M (P) 203	Financial Management	CO1	The students will able to understand the evolution of the concept of Entrepreneur-Functions,Growth,Problems and Development
			CO2	would be able to understand Factors Affecting Entrepreneurial Growth and Entrepreneurship Development programs
			CO3	Able to understand small Enterprices -Role of small Enterprices in Economic Development and their problems,MSME Act
			CO4	would be able to understand Institutional Finance to Entrepreneurs
			CO5	Able to understand women,Rural entrepreneurship and Micro-Finance
9	M.CO M (P) 204	Marketing Management	CO1	Students can analyse new product and its various development stages
			CO2	Role of pricing in marketing mix helps the students in managing price in producing products
			CO3	Role of pricing in marketing mix helps the students in managing price in producing products
			CO4	Helps to identify various marketing channels and forms of retailing
			CO5	Students can gather marketing information for taking marketing research decisions
10	M.CO M (P)205	Accounting for Managerial Decisions	CO1	Will learn basic concepts of costs
			CO2	Will gain knowledge of process costing and its techniques
			CO3	Will understand the marginal absorption and differential costing
			CO4	understand the techniques of marginal costing and Break Even Analysis for business decision making
			CO5	Apply cost accounting methods to evaluate and project cost of production in various types of businesses

DEPARTMENT OF M.Sc CHEMISTRY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	101	Inorganic Chemistry –I	CO1	Student gains knowledge over different theories and structures of different metal complexes.
			CO2	Students acquire comprehensive knowledge on the preparation, structure and reactions of different Inorganic cage and Ring compounds.
			CO3	Student acquires an understanding over the splitting patterns of different metal complexes, John-Teller effect and term symbols.
			CO4	Student gains knowledge about electronic spectra and magnetic properties of Transition metal Complexes.
2	102	Organic Chemistry-I	CO1	Students understand the orientation of Molecules in Space by learning the Stereochemistry.
			CO2	Students gain understanding over different nature of Bonding, Aromaticity, Metallocenes and Structure, Stability, Detection and Reactivity of Intermediates.

			CO3	Students gain Knowledge over different Named Reactions and Molecular Rearrangements..
			CO4	Students gain knowledge on Addition, Substitution and Elimination reactions.
3	103	Physical Chemistry -I	CO1	Students gain knowledge on the different concepts of Thermodynamics.
			CO2	Student's gains knowledge on the concepts of Quantum Chemistry.
			CO3	Students will gain knowledge on theories of reaction rate, Unimolecular, Chain and Fast reactions.
			CO4	Students will know about the concepts in Electro-Chemistry.
4	104	General Chemistry-I	CO1	Student gain knowledge about properties and theories of Polymers.
			CO2	Student gain knowledge on the basics of Spectroscopy and microwave spectra of diatomic molecules.
			CO3	Students will know about the Principle and applications of I.R and Raman Spectroscopy.
			CO4	Students gain knowledge on the Line spectra, band spectra, Frank-Condon principle, selection rules and effect of vibrational-rotational spectra on electronic spectra of homo nuclear and hetero nuclear diatomic molecules
5	201	Inorganic Chemistry –II	CO1	Students acquire knowledge over formation of M-M bonds and preparation, structure and bonding of the following metal cluster compounds.
			CO2	Students acquire knowledge Isoelectronic relationship, Isolobal relationship and Synthesis, structure, bonding and reactions of metallocenes with special reference to ferrocene.
			CO3	Students gain understanding on Pearson's theory of hard and soft acids and bases (HSAB) and Reactivity of metal complexes.
			CO4	Students gain knowledge on the different types inorganic reaction mechanism in metal complexes..
6	202	Organic Chemistry-II	CO1	Student acquire knowledge about types of Pericyclic reactions and their mechanism.
			CO2	Students gain knowledge about the reagents useful in the synthesis of various Natural products.
			CO3	Students gain knowledge about the Organo-metallic reagents useful in the synthesis of various Natural products.
			CO4	Students gain knowledge about oxidations and reductions in organic synthesis.
7	203	Physical Chemistry -II	CO1	Students gain knowledge on the topics of Statistical Thermodynamics.
			CO2	ts gain knowledge on the Homogeneous catalysis, Free

				radicals in chemical reactions and introduction about Enzyme Catalysis.
			CO3	Students gain knowledge on the Concept of activity and activity coefficient of an electrolyte, Electrode polarization and Polarography.
			CO4	Students acquire knowledge on the different concepts of Group theory.
8	204	Environmental Chemistry-Ii(Open Elective)	CO1	Students gain knowledge on the concepts of Hydrosphere.
			CO2	Students gain knowledge on concepts of Atmosphere.
			CO3	Students gain knowledge on concepts of Environmental toxicology and Green Chemistry.
			CO4	Students gain knowledge on Monitoring of Air and Water pollutants.
9	301	Modern Organic Synthesis	CO1	Students gain knowledge on Arbusov reactions, Perkov reactions and Wittig's reactions.
			CO2	Students acquire knowledge on protection of different functional groups in Organic Chemistry.
			CO3	Students gain knowledge on the new techniques and concepts in organic synthesis
			CO4	Students acquire knowledge on Applying synthetic strategies in the synthesis of organic compounds, explaining new techniques and concepts in organic synthesis
10	302	Asymmetric Synthesis and Organic Photochemistry	CO1	Students gain knowledge on the basic of Asymmetric synthesis.
			CO2	Students gain knowledge on the different types of controlled asymmetric synthesis.
			CO3	Students gain knowledge on the basic of Organic Photochemistry.
			CO4	Students acquire knowledge about different types of Organic Photochemistry reactions.
11	303	Bio-Organic Chemistry	CO1	Students gain knowledge on the mechanism of Enzymic action.
			CO2	Students gain knowledge on the Recombinant DNA and Fermentation technology.
			CO3	Students gain knowledge on the Coenzymes.
			CO4	Students gain knowledge on the Amino acids and Proteins.
12	304	Advanced Organic Spectroscopy	CO1	Students acquire knowledge on principle and applications of ¹³ C NMR Spectroscopy.
			CO2	Students gain knowledge on the Multipulse techniques in NMR Spectroscopy.
			CO3	Students acquire knowledge on principle and applications of 2D NMR techniques.
			CO4	Students acquire understanding on the spectra of natural products.
13	401	noids, Steroids, Alkaloids and Flavonoids	CO1	Students acquire knowledge on Occurrence, Isolation general methods of structural determination of Terpenoids.
			CO2	Students acquire knowledge on Occurrence, Isolation general methods of structural determination of Steroids.

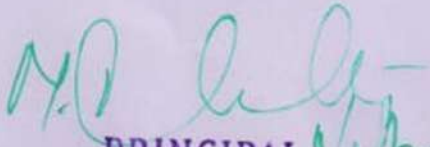
			CO3	Students acquire knowledge on Occurrence, Isolation general methods of structural determination of Alkaloids.
			CO4	Students acquire knowledge on Occurrence, Isolation general methods of structural determination of Flavonoids And Isoflavonoids.
14	402	Drug & Medicinal Chemistry and Green Chemistry	CO1	Students gain knowledge on the principle of drug design and drug discovery.
			CO2	Students gain knowledge on the introduction, sources of natural leads and their structural modification to semi synthetic/synthetic drugs.
			CO3	Students gain knowledge on the basics of Green chemistry.
			CO4	Students gain knowledge on the different types of green reactions.

DEPARTMENT OF M.Sc BOTANY

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1111	BIOLOGY AND DIVERSITY OF BACTERIA, FUNGI, VIRUSES AND PLANT PATHOLOGY	CO1	Understand the concepts of growth and reproduction in bacteria
			CO2	Identify the major lineages and groups of Kingdom Fungi and the characteristics that distinguish them.
			CO3	Understanding General virus structure, genome, and life cycle
			CO4	To know about the major infective crop diseases with severe economic impact and the measurement of disease symptoms;
2	1121	BIOLOGY AND DIVERSITY OF ALGAE, BRYOPHYTES, PT ERIDOPHYTES & GYMNASPERMS	CO1	To know the economic importance of the algae as food, fodder and different types of algae used as biofuels
			CO2	Understand the morphological diversity of Bryophytes. Understand the economic importance of the Bryophytes. Know the taxonomic position, occurrence, thallus structure, reproduction of Bryophytes.
			CO3	Learn about the general characters and classification by K.R. Sporne, stellar evolution in Pteridophytes, heterospory and origin of seed habit
			CO4	Know about the structure, life history and Economic importance of Gymnosperms. Know the scope of Paleobotany, and fossil group
3	1131	PLANT TAXONOMY	CO1	To understand the importance of plant taxonomy, types of classification particularly Bentham & Hooker's Classification and APG Classification; Origin And Phylogeny of Angiosperms.
			CO2	To know about the plant explorations around the world and in India, BSI, Flora of AP, herbarium methodology
			CO3	To understand the process of plant identification, ICBN to know the rules for naming the plant
			CO4	To understand the distribution & diversity of various families in Dicots and Monocots like Annonaceae, Fabaceae, Orchidaceae, Poaceae etc.,

4	1141	PLANT PHYSIOLOGY	CO1	Understand Water relation of plants Transpiration, Mineral nutrition: Essential macro and micro elements and their role in plants (deficiency, symptoms, disease and functions),
			CO2	Phosynsis light and dark reaction ,photophoshorylation, Dark phase: calvin cycle (C3) Hatch and Slack cycle (C4) and crassulacean acid metabolism, significance of photosynthesis,
			CO3	Types of respiration - Aerobic: Glycolysis, TCA cycle ETS (Oxidative phosphorylation) respiration.Plant growth substances, hormones; Seed dormancy: Introduction, methods of breaking Seed Dormancy, factors affecting seed dormancy; Physiology of flowering: Photoperiodism (LD/SD/DN plants) Vernalization
			CO4	Identify causes, symptoms, and effects of stress. Implement stress prevention techniques Concepts, Themes, Issues.Barriers to stress management
5	2111	PAPER CELL BIOLOGY & PLANT DEVELOPMENT	CO1	To understand plant cell signalling and components. Different cell communication properties have been discussed
			CO2	To study the cell cycle in living cells and its regulation which is most important aspect in disease conditions.
			CO3	Develop an understanding of concepts and fundamentals of plant anatomy examine the internal anatomy of plant systems and organs
			CO4	Develop critical understanding on the evolution of concept of organization of shoot and root and flower development
6	2121	MOLECULAR GENETICS AND TECHNIQUES IN BIOLOGY	CO1	Have conceptual understanding of laws of inheritance, genetic basis of loci and alleles and their linkage. Develop critical understanding of chemical basis of genes and their interactions at population and evolutionary levels.
			CO2	Analyze the effect of mutations on gene functions and dosage.
			CO3	To understand the different techniques like chromatography, centrifugation. Differrn types of microscope for molecular study of the cell,
			CO4	To understand the page contrast microscope and spectroscopy and radio isotopes which are used to study the molecular study of the cell.
7	2131	PAPER3:PLANT BIOCHEMISTRY	CO1	Understand the properties of Monosaccharides, Oligosaccharides and Polysaccharide
			CO2	Understand the Beta Oxidation, Gluconeogenesis and its role in mobilization of fatty acids during germination.
			CO3	Understanding the structure of proteins
			CO4	To acquire fundamental knowledge on enzymes and their importance in biological reactions.
8	2141	PAPER4:OPEN ELECTIVE: PLANTS & HUMAN WELFARE	CO1	To know the direct and indirect values of plants to humankind and environment
			CO2	To understand the morphology & utility of different categories of plants like edible resources, oil yielding plants, spices & condiments, timber, herbal medicine and transgenic plants
			CO3	To know the detailed information about the mushroom

				cultivation technology, its nutritional and medicinal value, marketing in India and abroad.
			CO4	To know the detailed account on organic farming, production & export.of certified organic products.


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