VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF HISTORY

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Student will be able to acquire historical knowledge, depth in terms of content and chronology of
	contents
PO2	Student will be able to distinguish between Primary and Secondary Sources to study of history
	and understand how to make use of them
PO3	Student should possess effective communication skills to deliver presentations to a variety of
F 03	audiences.
PO4	Student should understand the basic skills and tools of historical writings and analysis.
PO5	Students apply a biblical philosophy of history to their analysis of social, political, religious,
	cultural, economic issues.
PO6	Student should recognise values and ethical standards in every walk of life

PSO1	To understand the History of People and societies like religious, customs institution Administration.
PSO2	To create an awareness of different political cultural social and economic structures in the past
F302	and their Interrelationship.
PSO3	Analyse relationship between the past and the present is lively presented in the history.
	To prepare students for future study employability and responsible citizenship.
PSO4	a) Further study-post graduate in history, B.Ed, M.Phil, Ph.D
P304	b) Employability – Archaeologists, Historians, UPSC- jobs APPSC-Jobs, Teachers, NGO's
	Travel and Tourism experts.
	To develop interest in the study of History and activities, skills relating to history.
	a) Draw historical Maps, Charts
PSO5	b) Collect ancient arts, coins
	c) Visit Archaeological sites, Museums, archives and Historical important places.
	d) To take active role in activities of historical organizations.
PSO6	Empowering students in the historical research and to write articles on historical topics.
PSO7	Inculcate moral and ethical values among students.
PSO8	To install the feeling of patriotism among the students.
PSO9	To orient student to become perfect social being.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ECONOMICS

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and by connecting people, ideas, books, media and technology across the World.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity-Centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including that of own, understand the moral dimensions of our decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues in the contexts of environmental and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

PSO1	How the consumers and producers will take rational decisions in the context of unlimited needs and availability of scarce resources
PSO2	How the economy at the aggregate level works, what are the determinants of national income, prices, demand for and supply of money, poverty, and unemployment in an economy;
PSO3	He/she Gets understanding of the process of economic growth, economic development,
PSO4	He/she will be able to apply the determinants of economic growth and development to the economies of India and Andhra Pradesh and appraise the fiscal, monetary and other socioeconomic policies being pursued in India and Andhra Pradesh
PSO5	He/she will get a basic understanding of Statistical Methods with a view to applying them to economics and real life situations

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF POLITICAL SCIENCE

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Understand the world, their country, their society, as well as themselves and Develop the ability of reflective thinking and reasoning
PO2	Get awareness of ethical problems, social rights, values and responsibility
РО3	Take individual and team responsibility as a member or a leader of a team and have the skills to work effectively.
PO4	Student will be able to understand the basic tools of analysis such as analysis of social, political, religious, cultural and economic issues.
PO5	Prepare Students to recognise values and ethical standards in every walk of life
PO6	Develop the ability to make logical inferences about social and political issues on the basis of comparative knowledge
P07	Create the feeling of patriotism among the students and sense of belongingness of the society they live in
PO8	Exposed to the Knowledge of philosophical underpinnings of modern politics, government and the legal principles
PO9	Prepare students for a variety of careers and professions in fields such as law, government, education, politics, policy, and business.

PSO1	Be able to describe and explain political theory, political systems around the world, and politics in the international arena
PSO2	To create an awareness of different political, social and economic cultures in the past and their Interrelationship.
PSO3	Identify the principal arguments for and against alternative forms of government and evaluate alternative political ideas and ideologies
PSO4	Understand basic political and governmental structures, processes, and policies and operation of the system.
PSO5	Able to explain the role of political ideas, value conflicts, and ideology in human societies
PSO6	Critically assess the actions of the political process and determine their motives
PSO7	Understand the foundations of Indian government, including the structure and relationships between the branches of government
PSO8	Know how laws are made, policies are developed, programs implemented, and what influences
	and constraints are placed upon the process
PSO9	Inculcate moral and ethical values among students to become a responsible citizens

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF MATHEMATICS

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO2	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
РО3	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO4	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development
PO5	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PSO1	To increase the skills in different branches of Mathematics and increase Mathematical abilities in learning Mathematics.
PSO2	To increase the capability in learning Mathematics and increase the ideas in understanding the proofs.
PSO3	To facilitate students to appreciate the technique of formal proof (unique aspect of this discipline) in establishing facts through procedural, valid and logical reasoning.
PSO4	To familiarize students with the universal language of Mathematics precise in symbolic vocabulary, abstractions, generalizations and conventions.
PSO5	To enhance the Mathematical maturity in them with in depth of knowledge in pure and applied branches of Mathematics.
PSO6	To encourage students to become techno savvy with a perception widened by Mathematics.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF STATISTICS

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology
PO2	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering
РО3	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO4	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development
PO5	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO6	Specialized Skills / Transferable Skills: Acquisition of communication and soft, analytical and technological skills that aid in enhancing
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

PSO1	Apply the concepts, principles and methods of statistics to various fields of study
PSO2	Understand the importance and value of statistical principles and convert a problem description
	into testable research hypotheses
PSO3	Select appropriate statistical tools to investigate a research hypothesis.
PSO4	Perform data analysis by apply appropriate statistical methodology and interpret result in a
	variety of settings
PSO5	Compute statistical measures using software and programs.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Critical Thinking: Physics deals with a wide variety of systems, certain theories are used by all
	physicists.
PO2	Effective Communication: Each of these theories were experimentally tested numerous times and
	found to be an adequate approximation of nature.
PO3	Effective Citizenship: Physics uses mathematics to organize and formulate experimental results.
PO4	Value- based development: From those results, precise or estimated solutions, quantitative
F 04	results from which new predictions can be made and experimentally confirmed or negated.
PO5	Ethics: After successful completion of three year degree program in physics a student should be
F 03	able to; Demonstrate, solve and develop an understanding of major concepts in all disciplines.
PO6	Environment and Sustainability: Solve the problem and also think methodically, independently
	and draw a logical conclusion.
P07	Self-directed and Life-long Learning: Employ critical thinking and the scientific knowledge to
	design, carry out, record and analyse the results of Physics experiments. Create an awareness of
	the impact of Physics on the society, and development outside the scientific community.

PSO1	Able to understand various physics based applications in daily life and get motivated to pursue higher studies, research, attempt competitive examinations leading to career opportunities industries.
PSO2	These theories continue to be in areas of active research today.
PSO3	The student will gain the knowledge of Physics through theory and practical's.
PSO4	The student will understand good laboratory practices and safety.
PSO5	The student will develop research oriented skills.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF CHEMISTRY

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Effective citizenship: Provide a broad foundation in chemistry that stresses scientific reasoning
	and Analytical problem solving with a molecular perspective.
PO2	Practical Knowledge: Provide students with the skills required to succeed in graduate school, the
	chemical industry or professional school.
РО3	Problem analysis: To expose the students to a breadth of experimental techniques using modern
	instrumentation.
PO4	Modern tool usage: The student will understand the importance of the Periodic Table of the
PU4	Elements, how it came to be, and its role in organizing chemical information.
PO5	The Botanist and society: The student will learn the laboratory skills needed to design, safely
PUS	conduct and interpret chemical research.
PO6	Scientific Knowledge: The student will acquire a foundation of chemistry of sufficient breadth and
	depth to enable them to understand and critically interpret the primary chemical literature.
P07	Ethics: The student will learn professionalism, including the ability to work in teams and apply basic
	ethical principles.

PSO1	The objective of this paper is to bring awareness among students on the general characteristics and properties of p-block elements, basic concepts in organic chemistry and aromatic of benzene
PSO2	The objective of this paper is to bring awareness among students on concepts in different states of matter i.e. solid, liquid and gaseous. It gives information about properties of solutions and stereochemistry of carbon compounds.
PSO3	The objective of this paper is to bring awareness among students on the general characteristics and properties of d and f-block elements, reaction mechanisms of various organic reactions.
PSO4	The objective of this paper is to bring awareness among students on basic knowledge of spectroscopy and concepts of Electrochemistry
PSO5	The objective of this paper is to bring awareness among students on bonding theories of coordination compounds and reaction mechanisms of nitrogen compounds and concepts of thermodynamics.
PSO6	The objective of this paper is to bring awareness among students on reactivity of coordination compounds, importance of amino acids and mechanism of chemical reactions.
PSO7	The objective of this paper is to bring awareness among students on titrimetric analysis, separation techniques and basic knowledge of Chromatography techniques.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF CHEMISTRY (PG)

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Critical Thinking: Think critically and analyse chemical problems related to Inorganic, Organic,
	Physical and Analytical.
PO2	Effective Communication: Understand the need for scientific communication in both written & oral
	forms and as well as the role of computers and software in solving problems related to chemistry
1 02	and can use modern library tools to locate and retrieve scientific information about a topic, chemical
	or technique relating to chemistry.
PO3	Social Interaction: Function individually and as a member or leader in team with the fundamental
F 03	and advanced knowledge gained in the field of chemistry and other allied fields.
PO4	Effective Citizenship: Apply conceptual knowledge gained in the field of chemistry to assess social,
F 04	health, safety, legal and cultural issues and the relevant consequences of it.
PO5	Ethics: Record and analyse the experimental results by maintaining professional ethics,
	responsibilities and norms of the scientific practices.
PO6	Environment and sustainability: Understand the issues of environmental pollution and sustainable
	development.
PO7	Self-directed & lifelong learning: Engage in independent and lifelong learning of the concepts
	related to chemistry in broadest context of socio-technological changes.

PSO1	Self-motivation towards global level research opportunities to pursue Ph.D. Programme Agreed approach of CSIR – NET examination
PSO2	Required skill to have specific placement in R&D, pharmaceutical Industry and allied Divisions.
PSO3	Required knowledge to clear discipline specific competitive exams conducted by service Commission and other organizations.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF COMPUTER SCIENCE

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Provide students with fundamental knowledge and ability to expertise in Computer Science.
PO2	Provide insight to problem solving to succeed in Technical Profession through precise education and to prepare students to excel in postgraduate programs
PO3	To inculcate in students professional, effective communication skills, team work, multidisciplinary approach and an ability to relate issues to broader social context
PO4	Prepare students to be aware of excellence, leadership, written ethical codes and guidelines and lifelong learning needed for successful professional career by providing them with an excellent academic environment.
PO5	Empower the students in academic, social, psychological and economic arenas by developing relevant competencies
PO6	Interpret and apply the implications of environment awareness initiatives incorporated in curriculum.
PO7	Participation and contribution to community development activities through NCC, NSS etc.
PO8	Acquire sufficient knowledge base in the Domain Specific area leading to the pursuit of advanced level of study in the chosen Domain Specific area.
PO9	Adaptability and capacity building to the ever changing needs of the industry and employment opportunities.
PO10	Inculcate the human values through curricular, co-curricular and extracurricular activities

PSO1	Ability to apply foundations of Mathematics, Principles of Physics/Statistics and Theory of Computer Science in solving the real-world problems.
PSO2	Identify, formulate, review research literature, and analyses complex problems reaching substantiated conclusions using first principles of mathematics and Computer science.
PSO3	Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
PSO4	Create, select, and apply appropriate techniques, resources, and modern IT tools including prediction and modelling to complex activities with an understanding of the limitations.
PSO5	Understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO6	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PSO7	Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF COMPUTER SCIENCE (PG)

2022-23

PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

PEO1	Technical Expertise and Knowledge in Multiple Domains: Ability to develop an understanding of modern computing concepts and architectures from a design and performance perspective of various domains.
PEO2	Assessment from System Level Perspective: Able to analyse and appreciate the structure of computer systems and the processes involved in their construction at various levels of detail and abstraction.
PEO3	Critical Thinking, Business Analytics & Problem Solving and Innovation: An ability to apply knowledge of mathematics and computer science practices to build Innovative Public & Private Sector Applications involving complex computing problem solving and in research.
PEO4	Professional Ethics & Social Responsibility: Ability to apply and commit to professional ethics following cyber regulations in a global economic environment. Create and design innovative applications to solve complex problems using established practices for the betterment of the society.
PEO5	Apposite to Industry: Gain exposure to multiple programming languages, tools, paradigms, and technologies as well as the fundamental underlying principles throughout their education there by making them the right choice for industry positions.
PEO6	Effective Communication & Leadership: Ability to communicate effectively and present technical &project management information using audio-visual tools as well as in oral and written reports. Rise up to the need and be able to lead teams of individuals.
PEO7	Life-long Learning and Research: Understand the importance of, and possess pre-requisite skill set to undertake lifelong independent learning and research in the content of contemporary technological advancements.

PSO1	To make the students industry ready as far as possible to enhance their employability in the
	industries.
PSO2	Create an ambience of education through faculty training, self-learning, sound academic practices
	and Research endeavors.
PSO3	Able to develop strong analytical skills, critical thinking and experimental skills
PSO4	Able to solving on Computational problems, system networking knowledge, use of technology with
	innovative ideas
PSO5	Able to maintain the software network to handle the technological challenges.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF BOTANY

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Acquire in-depth knowledge of Botany and its allied branches, develop skills to identify and classify
	plants belonging to different groups from microbes, Algae up to Angiosperms.
PO2	Acquire Organization of tissues and tissue systems in plant and interpret various aspects of
	embryology, Develop awareness about environmental conservation and management strategies
	Demonstrate various laboratory skills and acquire knowledge to handle instruments, equipment's
PO3	glass wares, skills of callus culture, biotransformation technique for production of secondary
	metabolites etc. in the field of plant tissue culture.
	Demonstrate various laboratory skills and acquire knowledge to handle instruments, equipment's,
PO4	glass wares composting and the materials required for spawning and casing cultivation of various
	mushrooms. Etc. in the field of mushroom cultivation.
PO5	Acquire knowledge in the classification and comparison of Pteridophytes and Gymnosperms based
FU5	on their morphology, anatomy, reproduction and life cycle.
PO6	Acquire in-depth knowledge of Botany - water in plant life and mechanisms for transport of water
	and solutes in plants role of minerals in plant nutrition and their deficiency symptoms and also
	Interpret the role of enzymes in plant metabolism.
PO7	Gain knowledge about basics of Mendelian genetics, Evaluate the structure, function and
	regulation of genetic material and modern techniques in plant breeding.

PSO1	Understand the diversity to know the systematic position, morphology, structure and life cycle pattern of Algae, useful and harmful activities of Algae. Know the Economic Importance of Fungi, and the morphological diversity of Bryophytes.
PSO2	Understand the diversity of Gymnosperms, to know the evolutionary trends and affinities of living gymnosperms with respect to external and internal features and the conceptual development of taxonomy and systematic, and trends in classification. Know the floral variations in angiospermic families, their phylogeny and evolution. Understand various rules, principles and recommendations of plant nomenclature produces in plant identification.
PSO3	Understand the Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity unity of life with the rich diversity of organisms and their ecological and evolutionary significance. Learn about conservation of biodiversity, vegetation types of Andhra Pradesh.
PSO4	Able to understand importance and scope of plant physiology, plant cells in relation to water, process of photosynthesis in higher plants with particular emphasis on light and dark reactions, C3 and C4 pathways and respiration in higher plants with particular emphasis on aerobic and anaerobic respiration.
PSO5	Able to understand the eukaryotic cell, Structure and organization of cell membrane and Mendelian genetics, experimental evidences to prove DNA as a genetic material. Get the detail knowledge about modern strategies applied in Plant Breeding for crop improvement i.e. Mass selection, Pure line Selection and Clonal selection.
PSO6	Acquire basic knowledge and experimental skills in Biotechnology and, tissue culture, necessary for scientific investigation.
PSO7	Enable self-employment with knowledge and skills in certain applied branches like mushroom cultivation.
PSO8	Apply the theoretical knowledge gained during the program to the actual practice of laboratory plant science.
PSO9	Use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ZOOLOGY

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Critical thinking: Able to understand and utilize the principles of scientific enquiry, think analytically,
	clearly and evaluate critically while solving problems and making decisions during biological study.
PO2	Effective communication: Able to formally communicate Scientific ideas and investigations of the
	biology discipline to others using both oral and written communication skills.
PO3	Social interaction: Able to develop individual behaviour and influence society and social structure.
PO4	Effective citizenship: Able to work with a sense of responsibility towards social awareness and
	follow the ethical standards in the society.
PO5	Ethics: Ability to demonstrate and discuss ethical conduct in scientific activities.
PO6	Environment and Sustainability: Able to understand the impact of biological science in societal and
	environmental contexts and demonstrate the knowledge for sustainable development.
PO7	Self-directed and life-long learning: Able to recognize the need of life-long learning and engage in
	research and self-education.

PSO1	Understand the nature and basic concepts of chordates, non-chordates, Cell biology, Evolution, Genetics, Embryology, Physiology, Ecology and applications of Biotechnology and Immunology
PSO2	Identify the major groups of organisms, be able to classify them within a phytogenic framework, compare and contrast the characteristics of animals that differentiate them from other forms of life.
PSO3	Understand the unity of life with the rich diversity of organisms and their ecological and evolutionary significance
PSO4	Use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.
PSO5	Explicate the ecological interconnectedness of life on earth by tracing energy and nutrient flows through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.
PSO6	Acquire basic knowledge and experimental skills in Biotechnology and immunology, necessary for scientific investigation.
PSO7	Provide knowledge and skills in aquaculture systems, how they work, and how to best manage them as there is a need for qualified and professional people to work in the aquaculture industry.
PSO8	Apply the theoretical knowledge gained during the program to the actual practice of laboratory animal science.
PSO9	Enable self-employment with knowledge and skills in certain applied branches like Aquaculture, Poultry and Biotechnology.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ACQUACULTURE

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Critical thinking: Able to understand and utilize the principles of scientific enquiry, think analytically, clearly and evaluate critically while solving problems and making decisions during aqua cultural study.
PO2	Effective communication: Able to formally communicate Scientific ideas and investigations of the biology discipline to others using both oral and written communication skills.
PO3	Social interaction: Able to develop individual behaviour and influence society and social structure.
PO4	Effective citizenship: Able to work with a sense of responsibility towards social awareness and follow the ethical standards in the society.
PO5	Ethics: Ability to demonstrate and discuss ethical conduct in scientific activities.
PO6	Environment and Sustainability: Able to understand the impact of biological science in societal and environmental contexts and demonstrate the knowledge for sustainable development
P07	Self-directed and life-long learning: Able to recognize the need of life-long learning and engage in research and self-education.

PSO1	Demonstrate a sound understanding of the biology of aquaculture organisms and of breeding, genetics, nutrition and water quality issues relevant to aquaculture
PSO2	Design aquaculture systems and solve engineering issues in aquaculture
PSO3	Employ knowledge of health and safety issues in aquaculture
PSO4	Employ scientific techniques, practical skills, critical analysis of data and business management
F 304	strategies to improve aquatic resource management.
PSO5	Understand and interpret critical scientific and ethical issues in aquaculture
PSO6	Engage effectively with information and communication technologies
PSO7	Demonstrate research skills appropriate for further study and employment. Appreciate the need
	for continuing professional development.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF COMMERCE

2022-23

PROGRAMME OUTCOMES (PO'S)

PO1	Critical Thinking: Knowledgeable in the core disciplines of Commerce, Economics and Business through a number of specializations and practical exposure enables them to face the challenges in the field of Commerce
PO2	Effective Communication: Demonstrate proficiency in communicating competently in groups and organizations in English and in one Indian language
PO3	Effective Citizenship: Ability to act with an informed awareness of issues and participate in civic life through volunteering
PO4	Value- based development: Recognize values such as justice, trust, equity, fairness, kindness and, understand the moral Dimensions of your decisions, and accept responsibility for them.
PO5	Environment and Sustainability: Understand the issues of environmental contexts and Sustainable development
PO6	Self-directed and Life-long Learning: promoting continuous development and improvement of the knowledge and skills needed for employment and personal fulfilment

PSO1	Getting the knowledge and the importance of accounting and auditing Standards for the reliability of financial statements.
PSO2	Interpret the legal and environmental aspects of business and Analyze quantitative data in order to take business decisions
PSO3	Empowering the student to understand the accounting practices and Procedures followed by different business entities
PSO4	Promising the Practical skills for a bright career as accounting officers, computer professionals, audit assistants, businessmen, entrepreneurs, managers with required knowledge in computers.
PSO5	Knowledge of major theories and models in key areas which motivate them to pursue higher studies / face competitive exams like SSC,P.C,BANK,R.R.B/ professional courses like CA,CS, ICWA and other courses.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ENGLISH

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BA / B.Com / B.Sc.

Semester : 1

Title of the Course : A course in Communication & Soft Skills

Course Code : ENGT11B

CO1	Gain more confidence in learning various kinds of listening techniques as well as create more effective strategies to improve one's ability to listen and to understand people.
CO2	Improve their speaking ability in English both in terms of fluency and comprehensibility and practice in using English to perform preliminary communicative functions required for their everyday social
CO3	and professional interactions with others. Explore basic elements of grammar and test their abilities in concord, modals, tenses, articles, prepositions, question tags and transformation of sentences.
CO4	Develop their written expression of thought and discover opportunities to build connections within the areas of punctuations, spelling and paragraph writing.
CO5	Formulate problem solving skills, making appropriate and responsible decisions, improve their attitude, emotional intelligence, telephone etiquette and interpersonal skills.

Name of the Programme : BA / B.Com / B.Sc.

Semester : II

Title of the Course : A COURSE IN CONVERSATIONAL SKILLS

Course Code : ENG T01A

Course	Code : ENG 101A
CO1	Analyse interpret, appreciate and comprehend the specified text and the contexts in terms of their
	content, purpose and form.
CO2	Comprehend effectively for a variety of professional and social settings, adapting other writer's ideas
	as they explore and develop their own.
	Engage in simple, common and basic social and academic conversations, demonstrating the ability
CO3	to open and close a conversation and to ask for clarification, information or assistance, as well as
	agreeing/disagreeing and giving examples.
CO4	Convey their own interpretations by building dialogues and developing the learner's performance
	level in spoken English through the activities.
CO5	Acquaint the learner with the skills to debate, describe and role play.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF TELUGU

COURSE OUTCOMES (CO'S)

2022-23

Semester :

Title of the Course : TELUGU Course Code : TELT11A

Course	, 1221111
CO1	ప్రాచీన తెలుగు సాహిత్యం యొక్క ప్రాచీనతను, విశిష్టతను గుర్తిస్తారు. తెలుగు సాహిత్యంలో ఆదికవి నన్నయ కాలంవారి భాషా సంస్థ్రతులను, ఇతిహాసకాలం నాటి రాజనీతి విషయాలపట్ల పరిజ్ఞానాన్ని పొందగలరు.
CO2	శివకవుల కాలంనాటి మత పరిస్థితులను, భాషా విశేషాలను గ్రహిస్తారు. తెలుగు నుడికారు, సామెతలు, లోకోక్తులు మొదలైన భాషాంశాల పట్ల పరిజ్ఞానాన్ని పొందగలరు.
CO3	తిక్కన భారతంనాటి మత, ధార్మిక పరిస్థితులను, తిక్కన కవితా శిల్పాన్ని, నాటకీయతను అవగాహన చేసుకోగలరు.
CO4	పోతన అద్భుత కథాకథన శిల్పం, సజీవపాత్ర చిత్రణ, శబ్దాలంకారాల ప్రయోగం మొదలగు విభిన్న రీతుల పట్ల అభిరుచిని పొందగలరు. మొల్ల కవిత్వంలోని వీనుల విందైన పదాలు, పాత్రల మనోభావాల చిత్రణ గుర్తించగలరు.
CO5	తెలుగు పద్యం స్వరూప స్వభావాలను, సాహిత్యాభిరుచిని పెంపొందించుకుంటారు. ప్రాచీన కావ్యభాషలోని వ్యాకరణాంశాలను అధ్యయనం చేయదం ద్వారా భాషా సామర్థ్యాన్ని, రచనలో మెలకువలను గ్రహించగలరు.

Semester : II

Title of the Course : TELUGU Course Code : TELT21A

CO1	ఆంగ్లభాష ప్రభావం కారణంగా తెలుగులో వచ్చిన ఆధునిక సాహిత్యాన్ని, దాని విశిష్టతను గుర్తిస్తారు.
CO2	సమకాలీన ఆధునిక సాహిత్య ప్రక్రియలైన "వచన కవిత్వం, కథ, నవల, నాటకం, విమర్శల" పై అవగాహన పొందుతారు.
CO3	భావ కవిత, అభ్యుదయ కవిత్వాల లక్ష్మాలను గూర్చిన జ్ఞానాన్ని పొందుతారు. ఇంకా ఆస్తిత్వవాదం, ఉద్యమాల పుట్టుకను, ఆవశ్యకతను గుర్తిస్తారు.
CO4	కథా సాహిత్యం ద్వారా సామాజిక చైతన్యాన్ని పొందుతారు. సిద్ధాంతాల ద్వారా కాకుండా, వాస్తవ పరిస్థితులను తెలుసుకోవడం ద్వారా సిద్ధాంతాన్ని
	సమీక్షించుకోగలరు.
CO5	ఆధునిక తెలుగు కల్పనా సాహిత్యం ద్వారా సామాజిక, సాంస్థతిక, రాజకీయ చైతన్యాన్ని పొందుతారు.

Name of the Programme : BA / B.Com / B.Sc.

Semester : III

Title of the Course : TELUGU
Course Code : TELT01A

CO1	తెలుగు సాహిత్య అభ్యసనం ద్వారా నేర్చుకున్న వైపుణ్యాలను, సృజనాత్మక నైపుణ్యాలుగా మార్చుకోగలరు.
CO2	విద్యార్థులు భాషాతత్త్వాన్ని, ఆవశ్యకతను, ప్రాధాన్యాన్ని గుర్తిస్తారు.
CO3	భాషా నైపుణ్యాలను అలవర్చుకోవడం, వినియోగించడం నేర్చుకుంటారు.
CO4	ప్రాచీన పద్య రచనతోపాటు ఆధునిక కవిత, కథ, వ్యాసం మొదలైన సాహిత్య ప్రక్రియల పట్ల అవగాహన పొందుతారు.
CO5	సృజన రంగం, ప్రసార మాధ్యమాలు, అనువాద రంగాల పట్ల విద్యార్థులకు ఆవగాహన కల్గుతుంది.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF HINDI

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BA / B.Com / B.Sc.

Semester :

Title of the Course : General Hindi
Course Code : HINT11A

Course	COUC : IIINTITA
CO1	मनव मूल्यों को पहचान कर समाज कल्याण हेतु देने के लिए तैयार रहना।
CO2	आधुनिक युग की भावनाओं को पहचानकर सामाजिक समस्याओं का सामना करते हुए, निरंतर आगे बढ़ना।
CO3	विद्यार्थियों को शब्दावली से एक भाषा से दुसरे भाषा का अनुवाद कर सकता है।
CO4	छात्रों को इस व्यकरण के द्वारा भाषा में निपुणता आतीहैं।
CO5	छात्रों के इस पत्र-लेखन द्वारा लिखित कार्य बढता है और संप्रेषण का विकास होता है।

Name of the Programme : BA / B.Com / B.Sc.

Semester : I

Title of the Course : General Hindi Course Code : HINT21A

CO1	मानव मूल्यों से विद्यार्थी अवगत होंगे तथा इस दिशा में आगे बढ़ेंगे।
CO2	आधुनिक युग की भावनाओं को पहचानकर,निरंतर सामाजिक समस्याओं का सामना करते हुए,आगे बढ़ेंगे।
CO3	विषय के विश्लेषण से सामाजिक दायित्व को निभाने में अग्रसर होंगे।
CO4	ग्रहण किये गये पाठ्यांशों के द्वारा विद्यार्थियों का ज्ञान मापन बढ़ेगा तथा अपने क्षेत्र में भी आगे होंगे
CO5	भाषा की प्रवीणता और प्रयोग से विद्यार्थी उज्वल भविष्य की ओर बढ़ेंगे।

Name of the Programme : BA / B.Com / B.Sc.

Semester : II

Title of the Course : General Hindi Course Code : HINT01A

Course	. 1111110171
CO1	दोहों के द्वारा विद्यर्थियों में समाज सुधारक, मानव मूल्य बढ़ते हैं।
CO2	हिन्दी साहित्य का इतिहास के द्वारा हिन्दी भाषा की प्रामुख्यता और कविताओं की प्रामुख्यता मिल जातीहै।
CO3	समाज कल्याण विषयोंको समझकर अपना ज्ञान बढ़ते हैं।
CO4	समाज में भाषा पर प्रामुख्यता, भाषा में ज्ञान प्राप्त करके, दूसरों से आसानी से संप्रोषित करना सीखेंगे।
CO5	सरकारी व्यवस्थाओं को लेख लिखना, भाषा की विशेषता, समाज में सरकारी भाषा सीखकर दूसरों को आदर्शवान बना सकेंगे।

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF HISTORY

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BA Semester : I

Title of the Course : Ancient Indian history and culture from Indus valley civilization

to 13th century AD

Course Code : HIST21A

Course	. 111012111
CO1	It encourages students to think explicitly about the aims of Indian History and culture
CO2	Acquire knowledge of Indian religion such Buddhism and Jainism. Acquainted with Indian
CO2	kingship and culture - Mouryas and satavahanas
CO3	Evaluate the south indian administration and cultural contribution of pallavas
CO4	Ancient knowledge of golden age of Gupta's and cultural contribution of Harsha
CO5	Evaluate the administration of cholas and greatness of kakatiyas

Name of the Programme : BA Semester : II

Title of the Course : Mediaeval Indian History and culture (1206AD to 1764 AD)

Course Code : HIST21E

	ourse	Code . 1113121b
(CO1	Acquire the knowledge of Delhi sultanate
(CO2	ANALYSE the socio, Religious consciousness in India
(CO3	Acquire knowledge about the Mughal rulers and their policies
,	CO4	Students will learn to understand, ANALYSE and evaluate the administration and cultural aspects
CO4	of Mughal	
(CO5	Acquainted with the advent of the European and their settlements in India

Name of the Programme : BA Semester : III

Title of the Course : Modern Indian History and culture (1764-1947AD)

Course Code : HIS 301

CO1	Acquired the knowledge of British rule and 1857 revolt
CO2	Learnt about the social and religious system of India
CO3	Gained the knowledge about freedom struggle
CO4	Inspired by the national leaders like Gandhi and their ideologies
CO5	Thoroughly learned about partition of India and integration of princely states syllabus

Name of the Programme : BA Semester : IV

Title of the Course : History and culture of Andhra (from 1512 -1956AD)

Course Code : HIS 401

CO1	Known about nizams of Hyderabad
CO2	Learnt the impact of British on Andhra - Monroe- C.P.Brown, Sir Arthur Cotton
CO3	They were aware of social reformers and their contribution
CO4	Acquired knowledge about the national leaders and their ideologies
CO5	Acquired with the knowledge of Andhra state formation and Andhra Pradesh formation

Name of the Programme : BA Semester IV

History of modern world (15th century AD to 1945AD) Title of the Course :

Course Code HIS 402

CO1	Acquired the knowledge about the evolution of changes in the modern Europe
CO2	Learnt about Revolution and their impact on world
CO3	Had idea about the unification of Italy and Germany
CO4	Learnt lessons from world war 1&2
CO5	Gained knowledge about the work and importance of international organisations

Name of the Programme : BA Semester : Title of the Course : Course Code : VI

Tourism and Hospitality services

SECHIS601

CO1	Understand hospitality as a career
CO2	Inculcate interpersonal skills
CO3	Develop the ability for multitasking and crisis management
CO4	Understand the spirit of team work
CO5	Acknowledge the importance of guest service and satisfaction

Name of the Programme : BA Semester : Title of the Course : Course Code : VI

Tourism Guidance and operating Skills

SECHIS602

Course	. 525115002
CO1	Acquire tour guiding, operating and skills
CO2	Understand different situations under which one has to work
CO3	Cultivate cultural awareness and flexibility
CO4	Understand and apply team spirit
CO5	Plan and organise tour operator efficiently

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ECONOMICS

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BA

Name of the Programme		:	BA
Semest	er	:	I
Title of the Course		:	Micro Economic Analysis
Course	Code	:	ECO-T11B
CO1	Students are able to	unders	tand fundamentals of microeconomics
CO2	Students are able to	unders	tand the behaviour of consumer.
CO3	Students are able to	unders	tand the behaviour of producer.
CO4	CO4 Student can evaluate the different market structures.		
CO5	Students can analys	e the di	fferent theories of distribution.

Name of the Programme : BA
Semester : II
Title of the Course : Macro Economic Analysis
Course Code : ECO-T21B

CO1	Able to understand the nature and scope of macro economics
CO2	Able to understand different concepts of national income and methods to measure national income
CO3	Able to acquire the knowledge about the classical and Keynes theories of employment.
CO4	Able to understand Keynes theory of consumption function and working of multiplier and
	accelerate principle
CO5	To understand the functions of money different theories of money

Name of the Programme : Semester : Title of the Course : Course Code : : BA

Development Economics

ECO-T31B

CO1	To acquire the knowledge about the scope, importance of economic growth and economic development
CO2	To acquire the knowledge about the modern theories of economic growth
CO3	To acquire the knowledge about the theories of Development and under Development
CO4	To acquire knowledge about the strategies of economic development
CO5	To acquire knowledge about the role of institutions in economic development

Name of the Programme : BA Semester : III Title of the Course : Financial Markets

Course	Code : SDC-ECOT01
CO1	Acquire knowledge of financial terms
CO2	Know the concepts relating to markets and different avenues of investment
CO3	Understand the career skills related to stock exchanges
CO4	Comprehend the personal financial planning and money market skills

Name of the Programme BA Semester IV Title of the Course Economic Development in India and Andhra Pradesh Course Code ECO-T41 Remembers and states in a systematic way (Knowledge) leading issues of Indian economic development with reference to potential for growth, CO1 obstacles and policy responses Objectives, outlays and achievements of economic plans and growth strategies Explains (understanding) Available Resources, demographic issues, general problems of poverty and unemployment and relevant policies Sector specific problems, remedial policies and their effectiveness relating to Agriculture and CO₂ Industrial Sectors of Indian and AP economy and infrastructure issues of AP economy Indian Tax system, recent changes, issues of public expenditure and public debt, recent finance commissions and devolution of funds Major issues of economic development of Andhra Pradesh after bifurcation and Central assistance Critically examines using data and figures (analysis and evaluation) Leading issues of current importance relating to India and AP economy, major policies and CO3 programmes • COVID- 19 and its impact on Indian economy Uses official statistical data and reports including tables and graphs To explain the achievements of Indian economy with reference to the objectives of planning and CO4 policy and make critical evaluation Name of the Programme BA Semester Title of the Course Statistical Methods for Economics Course Code ECO-T42 Remembers and states in a systematic way (Knowledge) The definitions, terms and their meaning relating to statistical methods CO1 Various formulae used to measure central tendency, correlation regression and Indices Explains (understanding) • Importance of statistics and its applications CO₂ The method of classification of primary data Uses of Correlation and Regression analysis, time series and index numbers in economic analysis Analyses and solves using given data and information (analysis and evaluation) a. different kinds of statistical problems using various principles and formulae relating to central tendency, CO3 correlation, regression, time series and indices b. to interpret data and suggest solutions to economic problems Draws critical diagrams and graphs. Histogram, Frequency Polygon and Frequency Curve CO₄ More than cumulative and less than cumulative frequency curves Different types of Bar diagrams Pie Diagram and its uses in economic analysis

Name of the Programme : BA Semester V

Title of the Course **Insurance Services**

Course Code ECO-601C

Course	. Lee oute
CO1	Students are able to acquit the knowledge about principles of insurance since and functioning of insurance science
CO2	Students are about know importance of life insurance and products
CO3	Students are able to again the knowledge about general and health insurance
CO4	Students are able to acquit the knowledge about practicing as an insurance agent
CO5	Students are able to acquire the knowledge about understanding the continuous midst and case studies related to the general or health

Name of the Programme : Semester : BA VI

Title of the Course : Course Code : Banking and Financial Services

ECO-602C

CO1	Students are able to acquit the knowledge about the principles of banking and Indian Banking
	system.
CO2	Students are able to acquit the knowledge about Deposits, Loans and Digital Banking Systems.
CO3	Students are able to acquit he knowledge about Banking correspondents and common service
	centres
CO4	Students are able to acquit the knowledge about Financial service of NBFIs.
CO5	Students are able to acquit the knowledge about more with Finance service Company (FSC).

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF POLITICAL SCIENCE

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme BA Semester

Title of the Course : Introduction to political science

POLT11B Course Code

CO1	Define important field-specific theories and concepts, and understand their role in developing political science Knowledge
	developing political science Knowledge
CO2	Summarize conceptual arguments or theoretical approaches
CO3	Apply them to field relevant situations and support their application with appropriate evidence.
CO4	Compare and evaluate the merits of multiple policies, theories or concepts from different
CO4	disciplinary perceptions.
CO5	With the course, students are expected to learn the political concepts and theory in the Basic
COS	Concepts of Political Science.

Name of the Programme BA Semester

Title of the Course Basic organs of the government

Course Code POLT201B

CO1	To demonstrate and describe the salient features of the constitution of India interpret, integrate the
	salient and critically analyse the political economy of Indian Constitution
CO2	To understand the historical growth of the idea of fundamental human rights and create an
CO2	awareness on directive principles of state policy.
CO3	Acquaint themselves with different theories of origin of State
	To define federation and its features in Indian constitution and how it divides power between union
CO4	and state governments, legislations, administrative and financial spheres and recommendations of
	Sarkaria Commission
CO5	To learn the contents of Indian constitution and how the supreme court and other court functions
	and develop an awareness foreign and state constitutions

Name of the Programme : BA Semester

Title of the Course : Indian government and politics

POI 301C Course Code

Course	Code : FOLSOIC
CO1	The student's community has acquired knowledge of the making of the Indian Constitution and its
	philosophical background.
CO2	Information about the functionaries of the government both at the union and state level was
CO2	acquainted by the student community
CO3	To Understand the legislative procedures which ensure the orderly conduct of business in our
COS	parliament and state legislative assemblies in India.
CO4	To understand know the Ministers, their role &responsibilities.
CO5	To understand Judiciary of India.

Name of the Programme : BA III

Name of the Programme		•	DA
Semester		:	III
Title of	f the Course	:	Indian political process
Course	e Code	:	POL401C
CO1 To demonstrate Le		gislativ	e procedures which ensure the orderly conduct of business in our
COI	Parliament and sta	te legis	lative assemblies in India.
CO2	To understand the	election	n commission and functions
CO3	To study the local	governi	nent administration.
CO4	To understand the	awarer	ness of financial and government commissions
CO5	To understand the	dynam	ics of Indian political system and awareness of voting importance in the
COS	society.		

Name of the Programme : Semester : Title of the Course : Course Code : BA IV

Western political thought

POL402C

	It helps students discover the political philosophy that forms the basis of politics in the Western
CO1	world, to interpret the political philosophies of the Greek, Roman, French, English and Germen
	philosophers in historical context as well as relate them to contemporary politics.
CO2	Origin of the knowledge in political thought.
CO3	To understand the political thoughts in medieval period and how it laid foundation to modern.
CO4	To demonstrate how government politics people by democracy and individual people.
CO5	To demonstrate individual freedom, surplus value, materialist.

Name of the Programme : BA
Semester : IV
Title of the Course : E-governance
Course Code : SECPOL601

CO1	Acquaint students with the introduction to good governance and how it can be achieved by information and communication technology.
CO2	Understand the growing needs of E-Governance, improving transparency in the system of governance.
CO3	Have understanding of various government schemes and E-Governance projects and initiatives.
CO4	Provide the practical knowledge about the effective delivery of citizen services through online mode.
CO5	Realize the issues and challenges of E-Governance

Name of the Programme : BA
Semester : V
Title of the Course : Local administration
Course Code : SECPOL602

Course	Code . Blef GE002
CO1	Understand the existing context of Local Government Institutions in India.
CO2	Have knowledge on the need of empowerment and autonomy of LGIs.
CO3	Provide an overview on financial resources and constitutional provisions.
CO4	Analyse the issues, problems and conflicts in Local Administration.
CO5	Develop communication skills to interact with the elected members and officials. Enhance skills for
COS	observation, organizing, networking, documentation.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ENVIRONMENTAL STUDIES

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BA/BCOM/BSC

Semester

Title of the Course : **Environmental Studies**

Course Code LST06

CO1	Realize the importance of environment, the goods and services of a healthy biodiversity,
	dependence of humans on environment.
CO2	Evaluate the ways and ill effects of destruction of environment, population explosion on ecosystems
CO2	and global problems consequent to anthropogenic activities
	Discuss the laws/ acts made by government for environmental conservation and acquaint with
CO3	international agreements and national movements and realize citizen's role in protecting
	environment and nature

Name of the Programme : BA/BCOM/BSC

Semester

Title of the Course : Human Values & Professional Ethics

Course Code LST01

CO1	Understanding Value Education, its need in modern days, the basic human aspirations of happiness
COI	and prosperity.
CO2	Understanding harmony in the family and society
CO3	Gaining competence in Professional Ethics

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BSC (MPC, MPCS, MCCS, MSCS)

Semester :

Title of the Course : Differential Equations

Course Code : MATT11A

CO1	Determine the solution of differential equations of the first order and of the first degree by Exact, Linear and Bernoulli's method.	
CO2	Understand the basic concepts of first order differential equations to find Orthogonal trajectories	
CO3	Determine the solution of differential equations of the first order and of a degree higher than first by using methods of solvable for P, X, and Y.	
CO4	Compute all solutions of second and higher order linear differential equations with constant coefficients, linear equations with variable coefficients.	
CO5	Calculate the solutions of higher order differential equations by Cauchy Euler and Variation of parameters.	

Name of the Programme : BSC (MPC, MPCS, MCCS, MSCS)

Semester : II

Title of the Course : Real Analysis Course Code : MATT21B

CO1	Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate the limit of a bounded sequence.
CO2	Apply the Ratio, Root, and Alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.
CO3	Calculate the limit and examine the continuity of a function at a point.
CO4	
CO5	Determine the Riemann inerrability and the Riemann-Stieltjes inerrability of a bounded function and prove a selection of theorems concerning integration.

Name of the Programme : BSC (MPC, MPCS, MCCS, MSCS)

Semester : III

Title of the Course : Abstract Algebra

Course Code : MAT T31

Course	Code . WAI 131
CO1	Understand concepts of groups and its properties.
CO2	Determine sub groups and whether the given subsets of a group are sub groups.
CO3	Explain the significance of co-sets, normal subgroups and factor groups.
CO4	Determine group homo morphisms and isomorphism.

Name of the Programme BSC (MPC, MPCS, MCCS, MSCS) Semester Title of the Course **Analytical Skills** LSCT03 Course Code Analytical skills are the ability to visualize, gather information, articulate, analyse, solve complex CO1 problems Analyse the data from the information collected, and come up with a solution to a problem CO2 CO3 Easily to attempt all types of competitive exams The objective of conducting an online examination for Analytical Skills under General Education CO4 for II Degree students to equip them with a training in Time-Management and Decision Making for Competitive Exams which are time based Analytical skill is the ability to visualize, articulate, and solve both intricate and fundamental CO₅ problems and concepts, and make decisions that make sense based on available information Name of the Programme BSC (MPC, MPCS, MCCS, MSCS) Semester IV Title of the Course Solid Geometry Course Code MATT01A Understand the basic concepts of plane to find the length of perpendicular from given point to CO1 given plane, bisectors of angles between two planes, angle between the pair of planes. Determine the equation of a line in various forms & image of a given point w.r.t. a line and CO₂ plane. CO₃ Compute the equations of the hallow spheres through the given points, plane section of a sphere. Determine orthogonal spheres, coaxial system of spheres. The equation of cone, vertex of a cone, CO₄ General equation of second degree should represent a cone Name of the Programme BSC (MPC, MPCS, MCCS, MSCS) Semester Title of the Course Linear Algebra MATT41A Course Code CO1 Knowledge in fundamental concepts of vector spaces. CO2 Ability to understand the basic concepts of Basis and Dimensions. CO3 Discuss the linear transformations, rank and nullity. Appreciation in the concept of matrices as a tool in solving system of linear equations and CO4 determining Eigen values and Eigen vectors. Ability to understand the basic concepts of inner product spaces and to develop hypothetical ideas CO₅ and laws to solve the related problems in the context. Name of the Programme BSC (MPC, MPCS, MCCS, MSCS) Semester V/VI Title of the Course Multiple Integrals and Applications of Vector Calculus SECMAT501 / SECMAT601 Course Code Students learn about Multiple Integrals, Change of Order of Integration in Double Integral, Area and CO₁ Volume by Double Integration. Triple Integrals To set up and evaluate multiple integrals for regions in the plane. To find Area of the region bounded CO₂ by curves and to find volume, surface area, Mass, C.G and M.I of solid geometric figures. Recognize vector fields and vector calculus, and define Gradient, Divergence and Curl operators. CO₃ Compute the derivatives and line integrals, surface integrals and volume integrals of vector CO4 functions and learn their Applications Students learn Green's theorem, Gauss Divergence theorem, Stroke's theorem and applications to CO₅ evaluating line integrals and finding areas

Name o	of the Programme	:	BSC (MPC, MPCS, MCCS, MSCS)
Semest	er	:	V/VI
Title of	the Course	:	Integral Transforms with Applications
Course	Code	:	SECMAT502 / SECMAT602
CO1	Evaluate Laplace to	ransform	ns of certain functions, find Laplace transforms of derivatives and of
COI	integrals.		
CO2	Determine propert	ies of L	aplace transform which may be solved by application of Special
CO2	functions namely D	irac delt	ta function, error function, Bessel function and periodic function.
CO3	Understand proper	rties of i	inverse Laplace transforms, find inverse Laplace Transforms of
COS	derivatives and of i	ntegrals	_
CO4	Solve ordinary dif	ferential	equations with constant/ variable coefficients by using Laplace
CO4	transforms method		
CO5	Comprehend the p	ropertie	s of Fourier transforms and solve problems related to finite Fourier
COS	transforms.	-	-

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF STATISTICS

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme BSC (MSCS)

Semester

Title of the Course Descriptive Statistics and Theory of Probability

Course Code **STATIIB**

CO1	Knowledge of various types of data, their organization and evaluation of summary measures such
COI	as non- central and central moments, measures of skew ness and kurtosis.
CO2	Knowledge to conceptualize the probabilities of events including frequents and axiomatic approach. simultaneously, they will learn the notion of conditional probability including the concept of Bayes' Theorem
CO3	Knowledge related to concept of discrete and continuous random variables and their probability distributions including expectation and moments,
CO4	Knowledge related to concept of generating functions and weak law of large numbers.

Name of the Programme : BSC (MSCS)

Semester

Title of the Course Probability Distributions and Statistical Methods

Course Code STAT21C

CO1 Develop the basic knowledge in Probability distribution and uncertainty conditions values	
cton doud discusts much shiliter distuibutions to identify the much shiliter realizes	ve apply
CO2 Obtained the knowledge of applications on standard continuous distributions. Also knowledge in respect of usage in day-to-day life.	get the
knowledge in respect of usage in day-to-day life.	
CO3 Analyze the qualitative data	
CO4 Statistically analyze the strengths of relationship between variables.	
CO5 To outline the vital area of regression models applicable in a wide variety of real time situation.	ntions

Name of the Programme : BSC (MSCS)

Semester

Semest	er	:	III
Title of	the Course	:	Statistical Inference
Course	Code	:	STAT31C
CO1	Obtain the knowle examples	edge on	Exact sampling distributions and their application towards real world
CO2	Knowledge of poir	nt and ir	terval estimation procedures and different methods of point estimation
CO3	Obtain the knowl Powerful Test	edge or	various testing hypothetical statements and finding Uniformly Most
CO4	:		nding of Parametric models for developing relevant inferences on e and small samples
CO5	To obtain the know	vledge a	nd to know the applications of various Non-Randomized tests

Name of the Programme : BSC (MSCS)

Semester IV

Title of the Course : Sampling Techniques and Design of Experiments

Course	Code : STAT41B
CO1	To understand the principles and principal steps of sampling, and different sampling techniques.
CO2	To analyze the unbiasedness and efficiencies of estimates obtained using different sampling
CO2	techniques.
CO3	To understand the basic concepts and principles of experimental designs.
CO4	To Analyze the various design of experiment concepts and missing plot techniques.
CO5	To Identify the factors and variable for the experiment for building statistical model

BSC (MSCS) Name of the Programme Semester IV **Applied Statistics** Title of the Course Course Code STAT01 CO1 Measure the Mortality and Fertility rates and the construction of Life tables CO2 Construct the Quality Control charts for Variables. CO3 construct the Quality Control charts for Attributes CO4 Obtain the knowledge on asses the population growth by using vital statistics CO5 Helps asses the normalization processes of different scores and estimating the IQ levels.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BSC (MPC, MPCS)

Semester

Title of the Course : MECHANICS, WAVES AND OSCILLATIONS
Course Code : PHYT11B

CO1	Understand Newton's laws of motion and motion of variable mass system and its Application to
COI	rocket motion and the concepts of impact parameter, scattering cross Section.
	Apply the rotational kinematic relations, the principle and working of gyroscope and Its applications
CO2	and the processional motion of a freely rotating symmetric top. Comprehend the general
CO2	characteristics of central forces and the application of Kepler's laws to describe the motion of planets
	and satellite in circular orbit through the study of law of Gravitation.
	Understand postulates of Special theory of relativity and its consequences such as Length
CO3	contraction, time dilation, relativistic mass and mass-energy equivalence. Examine phenomena of
COS	simple harmonic motion and the distinction between Un damped, damped and forced oscillations
	and the concepts of resonance and quality Factor with reference to damped harmonic oscillator.
CO4	Appreciate the formulation of the problem of coupled oscillations and solve them to Obtain normal
CO4	modes of oscillation and their frequencies in simple mechanical systems.
COL	Figure out the formation of harmonics and overtones in a stretched string and acquire Knowledge
CO5	on Ultrasonic waves, their production and detection and their applications In different fields.
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ranic	of the Frogramme	•	boe (Wi C, Wi Co)
Semest	ter	:	II
Title of the Course		:	WAVES OPTICS
Course	e Code	:	PHYT21C
CO1	· -	vave fro	non of interference of light and its formation in (i) Lloyd's single mirror ont and (ii) Thin films, Newton's rings and Michelson interferometer due
CO2			nel's diffraction and Fraunhofer diffraction and observe the diffraction le slit and the diffraction grating
CO3	Describe the constr	uction a	and working of zone plate and make the comparison of zone plate with
CO4	Explain the variou detection and the c		nods of production of plane, circularly and polarized light and their of optical activity.
CO5	Comprehend the b applications in diff	-	nciple of laser, the working of He-Ne laser and Ruby lasers and their elds.

Name of the Programme : BSC (MPC, MPCS)

Semester

Title of the Course THERMODYNAMICS AND RADIATION PHYSICS

Course Code PHYT31A

Course	. 111110111
CO1	Understand the microscopic behaviour of molecules, interactions and the concepts of transport
COI	phenomena of heat transfer, mass transfer and momentum transfer.
CO2	State the First Law and define heat, work, thermal efficiency and the difference between various
CO2	forms of energy and describe energy exchange processes, reversible and irreversible process.
CO3	Derive thermodynamic potentials from first principles and derive the Maxwell relations
CO4	Understand very low temperatures like the concept of Joule Thomson effect, Lique faction of gases
CO4	and the properties at very low temperatures.
CO5	Understanding of Black-body radiation as the thermal electromagnetic radiation and the statistical
COS	principles to the mechanical behaviour of large number of small particles.

Name of the Programme BSC (MPC, MPCS) Semester ELECTRICITY, MAGNETISM AND ELECTRONICS Title of the Course Course Code PHYT41A Distinguish between the magnetic effect of electric current and electromagnetic induction and CO₁ apply the related laws in appropriate circumstances Understand Biot and Savart's law and Ampere's circuital law to describe and explain the CO₂ generation of magnetic fields by electrical currents. Develop an understanding on the unification of electric and magnetic fields and Maxwell's CO₃ equations governing electromagnetic waves Phenomenon of resonance in LCR AC-circuits, sharpness of resonance, Q factor, Power factor and CO4 the comparative study of series and parallel resonant circuits. Describe the operation of p-n junction diodes, zener diodes, light emitting diodes and transistors CO5 Name of the Programme BSC (MPC, MPCS) Semester IV Title of the Course MODERN PHYSICS Course Code PHYT01 CO1 Remember the different atomic models and basic knowledge of spectroscopy CO2 Understand the theory and application of microwave, infrared and Raman spectroscopy Apply non- relativistic Schrödinger wave mechanics to a variety of potentials in one and three CO3 dimensions. CO4 Analyse the prerequisite in a molecule towards its Rotational and vibrational activity CO5 Examine the basic properties of nuclei, characteristics of Nuclear forces, salient features Name of the Programme BSC (MPC, MPCS) Semester V/VI Title of the Course Applications of Electricity and Electronics Course Code SECPHY501C CO1 Understand the types of resistors, Inductors and capacitors and its applications Distinguish between AC and DC sources and understand about the batteries and Network theorems CO2 for DC circuits. CO3 | Explain the working principle and construction of Generators and transformers CO4 Learn the applications of EM induction and power supplies. Understand the principles and laws of electricity which is essential to constantly emerging newest CO₅ technologies Name of the Programme BSC (MPC, MPCS) Semester V/VI Title of the Course **ELECTRONIC INSTRUMENTATION** Course Code SECPHY502C Understand the basic measurements of Instruments (accuracy, precision, range, Resolution, sensitivity and errors). Understand the theory, working principle, specifications and significance of CO1

Describe the function of basic building blocks of Cathode Ray Oscilloscope. Measure the appropriate

parameters (Voltage, Time Period, Frequency and Phase angle)

Understand the fundamental theory of Transducers and bridges

Understand the A/D & D/A converters and display instruments
Gain knowledge about amplifiers, oscillators and biomedical instruments

Multi meter.

CO₂

CO3

CO4

CO5

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF CHEMISTRY

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester :

Title of the Course : Inorganic and Physical chemistry

Course Code : CHET11A

CO1	Understand the basic concepts of p-block elements
CO2	To compare the periodic properties of d and f block elements and explain the bonding and structures
CO2	of metal carbonyls.
CO3	To understand the properties and structure of Solid state.
CO4	To understand the properties of gaseous and liquid states
CO5	To explain the properties of Solutions

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester : I

Title of the Course : Organic and General chemistry

Course Code : CHET21A

CO1	Understand and explain the differential behaviour of organic compounds based on fundamental concepts learnt.
CO2	Formulate the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved.
CO3	Learn and identify many organic reaction mechanisms including Free Radical Substitution, Electrophilic Addition and Electrophilic Aromatic Substitution.
CO4	Understand the concepts of absorption and adsorption, colloidal chemistry and nature of Chemical Bonding.
CO5	Correlate and describe the stereo chemical properties of organic compounds and reactions.

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester : I

Title of the Course : Food adulteration

Course Code : SDCFA201

Course	. 55 6111201
CO1	Get basic knowledge on various foods and about adulteration.
CO2	Understand the adulteration of common foods and their adverse impact on health
CO3	Comprehend certain skills of detecting adulteration of common foods.
CO4	Be able to extend their knowledge to other kinds of adulteration, detection and remedies.
CO5	Know the basic laws and procedures regarding food adulteration and consumer protection.

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester : III

Title of the Course : Organic chemistry and Spectroscopy

Course Code : CHE-301C

000000	. 612 0010
CO1	Remember the preparations, properties and reactions of halo alkanes, halo arenas and oxygen
COI	containing functional groups.
CO2	Understand preparation, properties and reactions of carbonyl compounds.
CO3	Apply preparation methods for carboxylic acids and their derivatives
CO4	Analyse various molecules and polyatomic molecules using different spectroscopy methods.
CO5	Evaluate the functional groups of different organic compounds. Create applications of spectroscopy
	for various organic molecules.

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester : IV

Title of the Course : Inorganic, Organic & Physical Chemistry

Course Code : CHET01

CO1 To learn about applications of Organ metallic Compounds

CO2 To learn about classification of Carbohydrates

CO3 To understand the concept of Amino acids and proteins

To learn about the laws of absorption of light energy by molecules and the subsequent photochemical reactions.

To understand the concept of quantum efficiency and mechanisms of photochemical reactions

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester : IV

CO5

Title of the Course : Inorganic and Physical chemistry

Course Code : CHET41A

Course Code . Chiliffin	
CO1	Understand concepts of Coordination Chemistry and Inorganic Reaction Mechanism
CO2	Understand concepts of Phase Roll and Phase diagram
CO3	Understand concepts of boundary conditions and quantization, probability distribution, most probable values, uncertainty and expectation value
CO4	Application of quantization to spectroscopy.
CO5	Various types of spectra and their use in structure determination

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester : V/VI

Title of the Course : Analytical methods in chemistry-I

Course Code : CHE-501C

CO1	Remember the basic concepts of .quantitative analysis data treatment, separation techniques and
	analysis of water.
CO2	Acquire knowledge on the concepts quantitative analysis data treatment, separation techniques and
	analysis of water.
CO3	Apply the conceptual knowledge gained in the areas of quantitative analysis data treatment,
	Apply the conceptual knowledge gained in the areas of quantitative analysis data treatment, separation techniques and analysis of water in the chosen job role.
CO4	Analyse that how far the quantitative methods, data treatment methods separation techniques and
	Analysis of water

Name of the Programme : BSC (MPC, MCCS, BZC, ABC)

Semester : V/VI

Title of the Course : Analytical methods in chemistry-II

Course Code : CHE-502C

CO1	Remember the basic concepts of Chromatography like paper, TLC, Column, GC & HPLC.
CO2	Understand the significance of paper, TLC, Column, GC & HPLC in separation and identification of
	compounds
CO3	Apply the conceptual knowledge gained in the techniques of chromatography in separating and identifying the chemical compounds as and when required.
	identifying the chemical compounds as and when required.
CO4	Analyze that how far one chromatographic technique is much use full in separation and
	Analyze that how far one chromatographic technique is much use full in separation and identification of compounds over the other chromatographic technique.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF CHEMISTRY (PG)

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester

Title of the Course General chemistry

Course Code 22CH1T1

CO1	Recollect the concepts of titrimetric analysis, statistical rules, visible spectrophotometry and group theory in chemistry
CO2	Identify the role of titrimetric analysis, statistical rules, visible spectrophotometry and group theory in chemistry.
CO3	Demonstrate knowledge of titrimetric analysis, statistical data analysis, visible spectrophotometry and group theory in chosen job role.
CO4	Test the conceptual knowledge gained in titrimetric analysis, statistical rules / principles, Visible spectrophotometry and group theory in chemistry.
CO5	Recollect the concepts of titrimetric analysis, statistical rules, visible spectrophotometry and group theory in chemistry

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester

Title of the Course : Inorganic chemistry-1

Course Code 22CH1T2

CO1	Memorize the basic concepts of quantum chemistry, co-ordination chemistry and chemical Bonding.
CO2	Comprehend the role of basic and advanced concepts of quantum chemistry, co-ordination chemistry and chemical bonding.
CO3	Execute the conceptual knowledge gained in the concepts of quantum chemistry, co-ordination chemistry and chemical bonding in chosen job role.
CO4	Investigate the role and importance of concepts of quantum chemistry, co-ordination chemistry and chemical bonding in various allied fields of chemistry.
	and chemical bonding in various allied fields of chemistry.

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester

Title of the Course : Organic chemistry-1

22CH1T3 Course Code

·	
CO1	Recollect the basic concepts of aromaticity, reactive intermediates, addition, elimination and
	Substitution reactions.
CO2	Explain the basic and advanced concepts of aromaticity, reactive intermediates, and addition,
CO2	elimination and substitution reactions.
CO3	Solve high level concepts in organic chemistry with conceptual knowledge gained in Aromaticity,
	Reactive intermediates, addition, elimination and substitution reactions.
CO4	Exercise the knowledge about aromaticity, reactive intermediates, and addition, elimination and
	Substitution reactions in understanding the properties of organic compounds.

Name of the Programme M.SC (ORGANIC CHEMISTRY) Semester Title of the Course Physical chemistry-1 Course Code 22CH1T4 Recall the basic concepts of thermodynamics, surface chemistry, electrochemistry, chemical CO1 Kinetics and potentiometric in detail. Apply the spontaneous and non-spontaneous reaction and derive various thermodynamic and CO2 Chemical kinetic derivations. Describe the physical significance of thermodynamics, chemical kinetics and electrochemistry in CO3 Explaining the chemical properties and reactivity of molecules. Analyse the important techniques of surfaces with the help of ESCA, Auger electron spectroscopy CO4 and potentiometric techniques of complex metric, neutralization, oxidation and reduction Titrations.

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester : I

Title of the Course : Advanced Inorganic chemistry

Course Code : 22CH2T1

CO1	Memorize the fundamental concepts of Metallic & non-metallic clusters, Inorganic reaction mechanisms, organo-metallic chemistry, electronic spectra& magnetic properties of complexes and bioinorganic chemistry.
CO2	Comprehend the basic and advanced concepts of metallic & non-metallic clusters, Inorganic reaction mechanisms, organo metallic chemistry, electronic & magnetic properties of complexes and
	bioinorganic chemistry.
CO3	Apply the conceptual knowledge gained in the concepts of metallic & non-metallic clusters, inorganic reaction mechanisms, organometallic chemistry, electronic &magnetic properties of complexes and bio inorganic chemistry in other fields of chemistry as well as in research.
CO4	Analyse the role of metallic & non-metallic clusters / cages, inorganic reaction mechanisms, organo metallic chemistry, electronic &magnetic properties of complexes and bio inorganic chemistry in understanding the similarities and differences among the concepts of chemistry.
CO5	Assess that how far the concepts of metallic & non-metallic clusters, Inorganic reaction mechanisms, organo metallic chemistry, electronic & magnetic properties of complexes and bioinorganic chemistry are useful in rendering theoretical explanations for the concepts in chemistry.

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester : II

Title of the Course : Advanced Organic chemistry

Course Code : 22CH2T2

CO1	Understand the basic and advanced concepts of stereochemistry, conformational analysis, green
	Understand the basic and advanced concepts of stereochemistry, conformational analysis, green chemistry, Nanochemistry and named reactions.
CO2	Apply the concepts related to stereochemistry, conformational analysis, and green and nano chemistry in establishing the mechanism of the reaction.
CO2	chemistry in establishing the mechanism of the reaction.
CO3	Assess that how far the knowledge gained in stereochemistry, green chemistry and Nanochemistry is useful in understanding the nature of product.
	is useful in understanding the nature of product.
CO4	Evaluate the role of stereochemistry, green principles and nano chemistry in establishing the mechanism of a reaction as well as in other areas of chemistry.
	mechanism of a reaction as well as in other areas of chemistry.

Name of the Programme : M.SC (ORGANIC CHEMISTRY) Semester Title of the Course Advanced Physical chemistry 22CH2T3 Course Code Remember the concepts of thermodynamics, polymer chemistry, electro chemistry, chemical CO1 kinetics, photo chemistry. Understand the concepts of thermodynamics, polymer chemistry, electro chemistry, chemical CO₂ kinetics, photo chemistry. Apply the concepts of thermodynamics, polymer chemistry, electro chemistry, chemical kinetics, CO3 photo chemistry in research and other allied fields. Analyse the role and significance of concepts of thermodynamics, polymer chemistry, electro CO4 chemistry, chemical kinetics, photo chemistry. Evaluate the role of concepts of Symmetry and Group theory in chemistry and applications of group CO₅ theory, construction of character tables.

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester

Title of the Course Molecular spectroscopy

Course Code 22CH2T1

CO1	Memorize the basic principles and theory involved in molecular absorption spectroscopy.
CO2	Comprehend the advanced concepts of molecular absorption spectroscopy.
CO3	Apply the knowledge of spectroscopy in calculating the bond length, identifying the functional group present in molecules.
CO4	Identify the role UV – visible spectroscopy in the determination of absorption maximum and ESR spectroscopy in studying the properties of paramagnetic substances.

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester

Title of the Course Research methodology & Intellectual property

22CH2T2 Course Code

Course	. 22C11212
CO1	Memorize the basic concepts of research and its methodologies.
CO2	Understand some basic and advanced concepts of research and its Methodologies.
CO3	Demonstrate the ability to choose methods appropriate to research aims and objectives
CO4	Analyse the role of research methodologies in designing the new Strategies.

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester

Title of the Course Advanced organic spectroscopy

Course	Course Code : 2OCH311		
CO1	To Summarize the principle, theory and advanced aspects of ¹HNMR, ¹³C NMR, ²D NMR, ORD &		
COI	CD spectroscopic techniques.		
CO2	Display the knowledge gained in the areas of ¹ HNMR, ¹³ C NMR, ² D NMR, ORD & CD		
CO2	spectroscopic techniques in chosen job role.		
CO3	Interpret the spectral data of ¹HNMR, ¹³C NMR, ²D NMR, and ORD & CD in elucidating the		
COS	structure of the molecule.		
CO4	Assess that how far the spectral data of ¹ HNMR, ¹³ C NMR, ² D NMR, ORD & CD are useful in		
CO4	establishing the structure of the molecule.		

Name of the Programme M.SC (ORGANIC CHEMISTRY) Semester Title of the Course organic reaction & mechanisms 2OCH3T2 Course Code Acquire sound knowledge of oxidations, reductions, molecular rearrangements, pericyclic CO1 reactions and photo chemistry. Understand the concepts involved in oxidations, reductions, molecular rearrangements, pericyclic CO₂ reactions and photo chemistry. Apply the conceptual knowledge gained in oxidations, reductions, molecular rearrangements, CO3pericyclic reactions and photo chemistry in chosen fields. Analyse and categorise the various types oxidations' reductions, molecular rearrangements, CO4 pericyclic reactions and photo chemistry in a given reactions. Name of the Programme M.SC (ORGANIC CHEMISTRY) Semester Title of the Course Organic synthesis 2OCH3T3A Course Code Memorize the concepts, principles and theories related to formation of C - C single bond, C - C double bond, Diel's Alder related reactions. Protecting groups and disconnection approach in CO1 organic synthesis. Understand the role and significance of formation of C - C single bond, C - C double bond, Diel's CO₂ Alder related reactions. Protecting groups and disconnection approach in organic synthesis. Apply the conceptual knowledge gained in formation of C - C single bond, C - C double bond, Diel's CO₃ Alder related reactions. Protecting groups and disconnection approach in organic synthesis as and when required. Analyse the role of various reagents in carrying out the organic reactions like formation of C - C CO4 single bond, C - C double bond, Diel's Alder related reactions . Protecting groups and disconnection approach in organic synthesis. Name of the Programme M.SC (ORGANIC CHEMISTRY) Semester Title of the Course chemistry of Natural products Course Code 2OCH3T4B Memorize the concepts related to Alkaloids, Terpenoids, Steroids, Flavonoids and Isoflavonoids and CO1 Pigments. Understand the chemical role of Alkaloids, Terpenoids, Steroids, Flavonoids and Isoflavonoids and CO₂ Pigments. Execute the conceptual knowledge gained in the areas of Alkaloids, Terpenoids, Steroids, Flavonoids CO₃ and Isoflavonoids and Pigments. Analyse the role of methods involved in structure elucidation of Alkaloids, Terpenoids, Steroids, CO4 Flavonoids and Isoflavonoids and Pigments. Name of the Programme M.SC (ORGANIC CHEMISTRY) Semester Title of the Course Organic chemistry-1(MOOCS) Course Code 22CH4T1 Memorize basic concepts of analytical chemistry, chemical equilibrium, absorption spectrometry, CO₁ thermal methods of analysis and potentiometry. Understand the principle, theory and advanced aspects of analytical chemistry, chemical CO₂ equilibrium, absorption spectrometry, thermal methods of analysis and potentiometry. Display the knowledge gained in the areas of analytical chemistry, chemical equilibrium, absorption CO3 spectrometry, thermal methods of analysis and potentiometry in chosen job role. Analyse the role of analytical chemistry, chemical equilibrium, absorption spectrometry, thermal CO4 methods of analysis and potentiometry as and when required.

Name of the Programme		:	M.SC (ORGANIC CHEMISTRY)
Semester		:	IV
Title of the Course		:	Green chemistry
Course Code		:	22CH4T2B
CO1	Memorize the prine	ciples o	f green chemistry and concepts related to green organic synthesis.
CO2	Understand the rol	e and s	gnificance of green organic synthesis.
CO3 Exercise the basic and advanced knowledge gained on green organic synthesis in chosen job role		anced knowledge gained on green organic synthesis in chosen job role.	
CO4	Analyze how far	green	methods are environmentally benign over conventional methods of
CO4	synthesis.	_	. 3

Name of the Programme : M.SC (ORGANIC CHEMISTRY)

Semester : Title of the Course : Course Code : Techniques for modern industrial applications 22CH4T3A

CO1	Comprehend the concepts of purification methods and chromatographic methods.
CO2	Exercise the knowledge gained in purification and chromatographic techniques in their chosen job
CO2	role.
CO3	Exercise that how far the purification and chromatographic techniques are useful in assessing the
COS	Purity of the compound.
CO4	Evaluate that how far a compound is purified / separated using purification and chromatographic
CO4	techniques.

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF COMPUTER SCIENCE (PG)

COURSE OUTCOMES (CO'S)

Name of the Programme : M.SC (COMPUTER SCIENCE)

Semester : I

Title of the Course : Problem Solving Using Python Programming

Course Code : 22CS1T1

Course	. 22C3111
CO1	Understand basics of Python Programming.
CO2	Gain knowledge on Decision Control Statements and Functions & Modules.
CO3	Be familiar with Python Strings and Data Structures.
CO4	Have knowledge on Classes & Objects.
CO5	Apply Inheritance, Error and Exception Handling and Operator Overloading.

Name of the Programme : M.SC (COMPUTER SCIENCE)

Semester :

Title of the Course : Database Management Systems

Course Code : 22CS1T2

Course	. 22C3112
CO1	Understands the Concepts & Architecture of Databases.
CO2	Able to apply simple and complex SQL Queries & Relational Algebra & Relational Calculus.
CO3	Gain knowledge on ER, EER Schemas & Normalization.
CO4	Understands Disk Storage Organization, Hashing & Indexing.
CO5	Be aware of Transaction Processing, Concurrency Control and Distributed Databases.

Name of the Programme : M.SC (COMPUTER SCIENCE)

Semester :

Title of the Course : Formal Languages and Automata Theory

Course Code : 22CS1T3

Course	, code . 22C5115
CO1	Understand Fundamentals of Automata and Finite Automata.
CO2	Able to apply Regular Languages.
CO3	Gain knowledge on Grammar Formalism and Context Free Grammars.
CO4	Design Pushdown Automata.
CO5	Understand Turing Machine and Computability Theory.

Name of the Programme : M.SC (COMPUTER SCIENCE)

Semester :

Title of the Course : Operating Systems

Course Code : 22CS1T4

Course	. 2200111
CO1	Operating System, Operating System Structure and Process Concept.
CO2	Applying concepts of Threads, Process Synchronization & CUP Scheduling.
CO3	Understand Deadlock, Main Memory & Virtual Memory.
CO4	Explain Mass Storage Structure, File System Interface & File System Implementation.
CO5	Understanding on I/O Systems, Protection & Security

M.SC (COMPUTER SCIENCE) Name of the Programme :

Semester

Title of the Course : Personality Development through Life Enlightenment Skills

Course Code 22PG101

Course	Coue . 221 G101	
CO1	Develop their personality and achieve their highest goals of life.	
CO2	Lead the nation and mankind to peace and prosperity	
CO3	Practice emotional self-regulation.	
CO4	Develop a positive approach to work and duties	
CO5	Develop a versatile personality	

Name of the Programme : M.SC (COMPUTER SCIENCE)

Computer Networks

Semester : Title of the Course : Course Code : 22CS2T1

000000	
CO1	Understand functionality of Layered Network Architecture, Different types of Transmission Media.
CO2	Understand various Networks and their functions.
CO3	Understand the IP Addresses and various Routing Algorithms used in internet working.
CO4	Understand different Transport Layer Protocols.
CO5	Understand the various Application Layer Protocols and Security Issues over internet.

Name of the Programme : M.SC (COMPUTER SCIENCE)

Semester

Title of the Course Data Structures

Course Code 22CS2T2

CO1	To define data structures, operation of data structure, time and space complexities.
CO2	To understand concepts of string processing, arrays, records and pointers, linked lists, stacks, queues, recursion, trees, graphs & searching techniques. About searching and sorting techniques.
CO2	queues, recursion, trees, graphs & searching techniques. About searching and sorting techniques.
CO3	To implement applications of linked lists, stacks, queues, trees, graphs, sorting & searching
COS	techniques.
CO4	To analyse applications of linked lists, stacks, queues, trees, graphs, sorting & searching
CO4	techniques.
CO5	To evaluate applications of linked lists, stacks, queues, trees, graphs, sorting & searching
COS	To evaluate applications of linked lists, stacks, queues, trees, graphs, sorting & searching techniques in terms of time & space complexity.

Name of the Programme : M.SC (COMPUTER SCIENCE)

Semester

Title of the Course : Web Technologies

Course Code 22CS2T3

. 2200210		
CO1	Students are able to describe the concepts of WWW including browser and HTTP protocol and various HTML tags and use them to develop the user friendly Webpages.	
COI	various HTML tags and use them to develop the user friendly Webpages.	
CO2	Students will be able to use the Java Script and VBScript to develop the dynamic Webpages.	
CO3	Students will be able to define the CSS with its types and develop the modern web pages using the	
COS	HTML and XML elements with different layouts as per need of applications.	
CO4	Students use server side scripting with PHP to generate the web pages dynamically using the	
CO4	database connectivity.	
CO5	Develop the modern Web applications using the client and server side technologies and the web	
COS	design fundamentals	

Name of the Programme : M.SC (COMPUTER SCIENCE)

Semester : Title of the Course : Course Code : Software Engineering

22CS2E1

CO1	Understand various Software Engineering Methods, Practices, Process Models and Agile	
COI	Development Strategies.	
CO2	Illustrate Core Principles, Requirements & Modelling Concepts.	
CO3	Identify different Software Testing Approaches and various aspects of Software Quality Assurance.	
CO4	Classify various Process & Project Management Concepts.	
CO5	Estimate Software Projects & apply Formal Methods Modelling.	

M.SC (COMPUTER SCIENCE)

Name of the Programme : Semester : Title of the Course : Course Code : Research Methodology& IPR

22PG201

	CO1	Demonstrate the ability to choose methods appropriate to research aims and objectives	
	CO2	Understand the limitations of particular research methods	
	CO3	Develop skills in qualitative and quantitative data analysis and presentation	
	CO4	Develop advanced critical thinking skills	
	CO5	Demonstrate enhanced writing skills	

Name of the Programme : M.SC (COMPUTER SCIENCE)
Semester : II
Title of the Course : Computer Organization
Course Code : 20CS1T2

CO1	Understand Digital Logic Circuits, Digital Components and Data Representation.
CO2	Know Register Transfer and Micro Operations and Basic Computer Organization and Design.
CO3	Be familiar with Micro Programmed Control and Central Processing Unit.
CO4	Have knowledge on Computer Arithmetic.
CO5	Understand Input-Output Organization & Memory Organization.

Name of the Programme : M.SC (COMPUTER SCIENCE)
Semester : III
Title of the Course : Internet of Things (IoT)
Course Code : 22CS3E5

Course Code 22CS3E5

000000	. == 55525	
CO1	Attain knowledge over view of Internet of Things.	
CO2	Understand Models, Layers & Standardization.	
CO3	Apply Protocols & Design Principles for Connected Devices.	
CO4	Understand Internet Connectivity Principles, Protocols & Application Layer Protocols.	
CO5	Understand Data Acquiring, Business Models and Business Processes.	

Name of the Programme : M.SC (COMPUTER SCIENCE)
Semester : III
Title of the Course : Cryptography & Network Security
Course Code : 22CS3E3

CO1	Understand Computer & Network Security Concepts, Classical Encryption Techniques and
	Advanced Encryption Standard.
CO2	Gain knowledge on Number Theory, Public Key Cryptography and RSA, Other Public-Key Crypto Systems and Message Authentication Codes.
CO2	Systems and Message Authentication Codes.
CO3	Know Digital Signatures, Key Management and Distribution and User Authentication.
CO4	Understand Transport Level Security, Electronic Mail Security and IP Security.
CO5	Gain knowledge about Intruders and Firewalls

Name of the Programme M.SC (COMPUTER SCIENCE) Semester Title of the Course Design & Analysis of Algorithms 22CS3E1 Course Code CO1 Understand Basic Ideas about Analysis of Algorithms and the Concept of Data Structures. CO2 Know Divide and Conquer, Greedy Methods and Solving Various Problems by applying them. Apply Dynamic Programming Method and Basic Traversal and Search Techniques to solve various CO3 Problems. CO4 Understand Backtracking and Branch and Bound Techniques to Design Algorithms. CO5 Categorize NP-Hard and NP-Complete Problems. Name of the Programme M.SC (COMPUTER SCIENCE) Semester Title of the Course **Data Mining Techniques** Course Code 22CS3E2 CO1 Understand the Basics of Data Mining and Data Pre-Processing Techniques. CO2 | Aware of constructing the Data Warehouse, OLAP and relevant Data Model Concepts. Understand the Frequent Item set Mining Methods and Different Levels in Association Rules. CO3 Understand the Basic Concepts in Classification and Advanced Classification Methods by CO4 Implementing Various Algorithms CO5 Find the similarities among the data using Clustering Algorithms and Outlier Analysis. Name of the Programme M.SC (COMPUTER SCIENCE) Semester IV Title of the Course Big Data and Analytics Course Code 22CS3E2 CO1 Understand basics of Big Data. CO2 Gain knowledge on Big Data Analytics. CO3 Be familiar with HDFS, and Hadoop environment. CO4 Have knowledge on Mongo DB. Gain knowledge on PIG and Jasper soft CO5 M.SC (COMPUTER SCIENCE) Name of the Programme Semester Title of the Course Machine Learning Course Code 20CS4T1 Identify problems that are amenable to AI techniques and analyses search techniques to solve those CO₁ problems. Awareness of representation languages like first order logic. CO2 Formalize and implement different AI algorithms, various Knowledge Representations and CO3 identify the importance of planning to solve AI problems. CO4 Understands about basics of machine learning and conceptual learning. To acquire knowledge about ANN and Instance based learning. CO₅ M.SC (COMPUTER SCIENCE) Name of the Programme Semester IV Title of the Course Machine Learning Course Code 20CS4T1 Identify problems that are amenable to AI techniques and analyses search techniques to solve those CO₁ CO2 Awareness of representation languages like first order logic. Formalize and implement different AI algorithms, various Knowledge Representations and CO3 identify the importance of planning to solve AI problems. CO4 Understands about basics of machine learning and conceptual learning. To acquire knowledge about ANN and Instance based learning.

M.SC (COMPUTER SCIENCE) Name of the Programme :

Semester

Title of the Course : Cloud Computing 20CS4E1

Course Code : 20C54E1		
CO1	Understand the Basic Concepts of Operating System, Operating System Structure and Process	
COI	Concept.	
CO2	Applying concepts of Threads, Process Synchronization & CUP Scheduling.	
CO3	Understand Deadlock, Main Memory & Virtual Memory.	
CO4	Explain Mass Storage Structure, File System Interface & File System Implementation.	
CO5	Understanding on I/O Systems, Protection & Security.	

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF COMPUTER SCIENCE

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : B.Sc (M.P.Cs, M.C.Cs, M.S.Cs)

Semester

Title of the Course Problem solving in C

Course Code CSCT11B

CO1	Understand the evolution & functionality of Digital Computers and develop an algorithm for solving a given problem.
CO2	Understand tokens and control structures in C.
CO3	Understand arrays and strings and implement them.
CO4	Understand the right way of using functions, pointers, structures and unions in C
CO5	Develop and test programs written in C files

Name of the Programme : B.Sc (M.P.Cs, M.C.Cs, M.S.Cs)

Semester

: Data Structures : CSCT21B Title of the Course

Course Code

CO1	Learn the concepts of ADT and understand analysis of algorithms
CO2	Understand available Data Structures for data storage and processing.
CO3	Learn stacks, queues and their applications
CO4	Understand trees, graphs and implement their operations

CO5 Develop ability to implement different Sorting and Search methods

Name of the Programme : B.Sc (M.P.Cs, M.C.Cs, M.S.Cs)

Semester . Title of the Course : Data Base Management System

Course Code CSCT37

000000	. 65 615.
CO1	Understand database concepts and design.
CO2	Create databases using structured query language.
CO3	Apply data manipulation commands in SQL.
CO4	Learn the programming basics of PL/SQL.
CO5	Implementation of cursors in PL/SQL.

Name of the Programme : B.Sc (M.P.Cs, M.C.Cs, M.S.Cs)

Semester

Title of the Course Object Oriented Programming using Java

CSCT01 Course Code

000000	. 65 61 01
CO1	Understand the concept and underlying principles of Object-Oriented Programming, Understand
COI	how object-oriented concepts are incorporated into the Java programming language.
CO2	Implement Object Oriented Programming Concepts (class, constructor, overloading, inheritance,
CO2	overriding) in java.
CO3	Analyse inheritance and interfaces in a Java program
CO4	Evaluate Multithreading, exception handling in Java
CO5	Create applets and packages in a Java program, Use of Input/output Streams in java and use of
COS	IDBC with Oracle database.

Name of the Programme : B.Sc (M.P.Cs, M.C.Cs, M.S.Cs)

Semester

Title of the Course **Operating System**

Course Code CSCT41C

Course	. Cocitie
CO1	Understand Operating System Architectural design and its services
CO2	Implementation of Scheduling Algorithms
CO3	Analyse memory management techniques, concepts of virtual memory and disk scheduling
CO4	Understand the implementation of file systems and directories with the interfacing of IO devices
CO4	with the operating system
CO5	Identify the deadlock situation and provide appropriate solutions so that protection and security of
COS	the operating system is also maintained

Name of the Programme : B.Sc (M.P.Cs, M.C.Cs, M.S.Cs)

Semester V/VI

Semester
Title of the Course : Web Interface Designing Technologies

SECCSCT01

CO1	Understand web application and static web page using Html.
CO2	Gain knowledge about various designing of style sheets.
CO3	Demonstrate skills regarding creation of an interface to dynamic website.
CO4	Gain knowledge about various advantages of XML and validating schema
CO5	Learn how to install word press and gain the knowledge of installing various plugins to use in
	their websites.

Name of the Programme : B.Sc (M.P.Cs, M.C.Cs, M.S.Cs)

V/VI Semester

Semester
Title of the Course : Web Applications Development using PHP& MYSQL

SECCSCT02

CO1	Learn basic structure and key concepts in PHP, Control statements and functionsconcept and
	related programs
CO2	Know What is an Array concept related programs, What is an Object, variousobjects, Formatting
CO2	Know What is an Array concept related programs, What is an Object, variousobjects, Formatting strings, Date and time and related programs
CO3	
COS	Learn importance of Forms, Combining HTML with PHP code. Importance of Cookies and Sessions related programs of forms cookies and sessions.
CO4	Know importance of File concept in PHP how to Create, Open, Read and write data in file related
CO4	Know importance of File concept in PHP how to Create, Open, Read and write data in file related programs, Knowing about Image creation, drawing, and modification image
CO5	Know about Database concept of MySQL, Connection, Creation of Database, Tableadding Record
	into it related programs

Name of the Programme : **B.Com** (Computer Applications)

Semester

Title of the Course : Information Technology

CCDT11 A

Cours	Course Code : CSBTTIA		
CO1	Understand fundamental concepts of a computer and its basic components		
CO2	Understand basic functioning of an operating system and customizing Windows Desktop		
CO	Analyse type of soft wares and programming languages		
CO4	Have knowledge in basic Network and Data Communication Concepts		
CO5	Understand the need of data mining and get familiarize with basics of new concepts like KDD,		
COL	OLAP		

Name of the Programme B.Com (Computer Applications) Semester Title of the Course **Computer Applications** Course Code CABT22A CO1 Understand fundamental concepts of a computer and its basic components Understand basic functioning of an Ms-Office and MS-Word Window Components Windows CO₂ Desktop Analyse type of soft ware's and programming languages CO3 CO4 Have knowledge in MS-Excel and MS Access Understand the need of Finding, Sorting and Displaying Data and get familiarize CO5 Name of the Programme **B.Com (Computer Applications)** Semester Title of the Course E-COMMERCE & WEB DESIGNING Course Code CABT21A CO1 Gain knowledge in E- commerce and its business models CO2 Differentiate traditional and e – marketing and also gain knowledge in E-CRM and EPS CO3 Understand the structure of HTML its basic tags CO4 Implement various HTML tags for web page development CO5 Understand about web page designing **B.Com** (Computer Applications) Name of the Programme Semester Title of the Course Programming with C & C++ CABT31A Course Code To understand the meaning and generations of a programming language and to learn about c CO1 tokens. CO2 To learn about operators and conditional statements in C To Gain knowledge about functions and to learn how to work with arrays- knowledge about CO₃ strings and its functions. To learn about the concepts of structures and unions. CO4 CO₅ To understand about Object-Oriented Programming concepts using CPP Name of the Programme B.Com (Computer Applications) Semester IV Title of the Course **DBMS** CABT41A Course Code CO1 Understand the Characteristics and basics of Database. CO2 Understand file system and Architecture of DBMS CO3 Enlighten ER Diagrams, Relationship, Notation & schema. CO4 Enlighten EER Diagrams & Applying constraints on data. CO5 Implementing SQL commands retrieve, insert, modify and update Name of the Programme **B.Com** (Computer Applications) Semester Title of the Course Object Oriented Programming using Java Course Code CCSCT42 CO1 Able to Understand the concept and underlying principles of Object-Oriented Programming. CO2 Able to Understand the Basic concepts of Data types & Operators CO3 Able to Implement Decision & Looping Statements Able to Implement Object Oriented Programming Concepts like class, constructor, overloading. CO4 Able to Understand the concept of Inheritance and Exceptions Object-Oriented Programming.

Name of the Programme B.Com (Computer Applications) Semester V/VI Title of the Course Big data Analytics using R Course Code SECCAT01 CO1 Understand data and classification of digital data. CO2 Gain knowledge of technologies used in big data Analytics. CO3 Understand basics of R and control structures in R. CO4 Load data into R objects and manipulate them as needed. CO5 Create and edit visualizations with R Name of the Programme **B.Com (Computer Applications)** V/VI Semester Title of the Course Data Science using Python Course Code SECCAT07 CO1 Understand the need and importance of data science CO2 Understand basic concepts of python and implementing control structures in python. CO3 Implement strings and other data structures in python CO4 Learn and Implement functions and modules in python CO5 Learn and Implement data cleaning and plotting using pandas. Name of the Programme B.Com (E-Commerce & Computers) Semester Title of the Course Information Technology Course Code CSBT11A CO1 Understand fundamental concepts of a computer and its basic components CO2 Understand basic functioning of an operating system and customizing Windows Desktop CO3 Analyse type of soft wares and programming languages CO4 Have knowledge in basic Network and Data Communication Concepts Understand the need of data mining and get familiarize with basics of new concepts like KDD, CO₅ **OLAP** Name of the Programme B.Com (E-Commerce & Computers) Semester Title of the Course **Computer Applications** Course Code CABT22A CO1 Understand fundamental concepts of a computer and its basic components Understand basic functioning of an Ms-Office and MS-Word Window Components Windows CO2 Desktop CO₃ Analyse type of soft ware's and programming languages CO4 Have knowledge in MS-Excel and MS Access Understand the need of Finding, Sorting and Displaying Data and get familiarize Name of the Programme B.Com (E-Commerce & Computers) Semester Title of the Course Programming in C ECCSC21 Course Code Understand the evolution & functionality of Digital Computers and develop an algorithm for CO₁ solving a given problem. Understand tokens and control structures in C. CO2 CO₃ Understand arrays and strings and implement them. Understand the right way of using functions, pointers, structures and unions in C CO4 CO5 Develop and test programs written in C files

Name of the Programme B.Com (E-Commerce & Computers) Semester Title of the Course Problem Solving in 'C' CSCT11B Course Code Understand the evolution & functionality of Digital Computers and develop an algorithm for CO1 solving a given problem. CO2 Understand tokens and control structures in C. CO3 Understand arrays and strings and implement them. Understand the right way of using functions, pointers, structures and unions in C

Name of the Programme B.Com (E-Commerce & Computers)

Semester :

CO4

Title of the Course OOP'S using Java Course Code ECCSCT 41

CO5 Develop and test programs written in C files

CO1	Able to Understand the concept and underlying principles of Object-Oriented Programming.	
CO2	Able to Understand the Basic concepts of Data types & Operators	
CO3	Able to Implement Decision & Looping Statements	
CO4	Able to Implement Object Oriented Programming Concepts like class, constructor, overloading.	
CO5	Able to Understand the concept of Inheritance and Exceptions Object-Oriented Programming.	

Name of the Programme : B.Com (E-Commerce & Computers)

Semester IV Title of the Course **DBMS** Course Code ECCSCT 42

CO1	Understand the Characteristics and basics of Database.
CO2	Understand file system and Architecture of DBMS
CO3	Enlighten ER Diagrams, Relationship, Notation & schema.
CO4	Enlighten EER Diagrams & Applying constraints on data.
CO5	Implementing SQL commands retrieve, insert, modify and update

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF BOTANY

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : B.Sc (BZC, ABC)

Semester : I

Title of the Course : Fundamentals of Microbes and Non-vascular Plants

Course Code : BOTT11A

Course Code . DOTTITA	
CO1	Explain origin of life on the earth
CO2	Illustrate diversity among the viruses and prokaryotic organisms and can categorize them.
CO3	Analyse and ascertain the plant disease symptoms due to viruses, bacteria and fungi
CO4	Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and life cycles
CO5	Evaluate the ecological and economic value of microbes, thallophytes and bryophytes

Name of the Programme : B.Sc (BZC, ABC)

Semester : II

Title of the Course : Basics of Vascular plants and Phytogeography

Course Code : BOTT21A

Course	code . bolizia
CO1	Gain knowledge in the classification and comparison of Pteridophytes and Gymnosperms based on their morphology, anatomy, reproduction and life cycle
CO2	Justify evolutionary trends in Tracheophytes to adapt for land habitat. Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their good and services for human welfare
CO3	Explanation of the process of fossilization and compare the characteristics of extinct and extant plants
CO4	Analyse the morphology of the most common Angiosperm plants of their localities and recognize their families.
CO5	Locate different Phyto-geographical regions of the world and India and can analyse their floristic wealth

Name of the Programme : B.Sc (BZC, ABC)

Semester : III

Title of the Course : Anatomy and Embryology of Angiosperms, Plant Ecology

and Biodiversity

Course Code : BOTT31A

CO1	Understand on the organization of tissues and tissue systems in plants
CO2	Illustrate and interpret various aspects of embryology
CO2	Discuss the basic concepts of plant ecology, and evaluate the effects of environmental and Biotic
CO3	factors on plant communities
CO4	Appraise various qualitative and quantitative parameters to study the population and community
CO4	ecology
	Correlate the importance of biodiversity and consequences due to its loss and enlist the Endemic /
CO5	endangered flora and fauna from two biodiversity hot spots in India and assess strategies for their
	conservation.

Name of the Programme : B.Sc (BZC, ABC)

Semester : IV

Title of the Course : Plant Physiology and Metabolism

Course Code : BOTT 41A

CO1 Comprehend the importance of water in plant life and mechanisms for transport of water and solutes in plants.

CO2 Evaluate the role of minerals in plant nutrition and their deficiency symptoms, Interpret the role of enzymes in plant metabolism

Critically understand the light reactions and carbon assimilation processes responsible for

Evaluate the phytohormones that regulate growth and development in plants, examine the role of

Analyse the biochemical reactions in relation to Nitrogen and lipid metabolisms.

light on flowering and explain physiology of plants under stress conditions

Name of the Programme : B.Sc (BZC, ABC)

Semester : IV

synthesis of food in plants.

CO₃

CO4

CO₅

Title of the Course : Cell Biology, Genetics and Plant Breeding

Course Code : BOTT 42A

CO1	Distinguish prokaryotic and eukaryotic cells and design the model of a cell
CO2	Explain the organization of a eukaryotic chromosome and the structure of genetic material.
CO3	Demonstrate techniques to observe the cell and its components under a microscope.
CO4	Discuss the basics of Mendelian genetics, its variations and interpret inheritance of traits in living
CO4	beings.
CO5	Elucidate the role of extra-chromosomal genetic material for inheritance of characters. Evaluate the
	structure, function and regulation of genetic material.

Name of the Programme : B.Sc (BZC, ABC)

Semester : V/VI

Title of the Course : Plant tissue culture

Course Code : SECBOT 501

CO1	Comprehend the basic knowledge and applications of plant tissue culture
CO2	Identify various facilities required to set up a plant tissue culture laboratory
CO3	Acquire a critical knowledge on sterilization techniques related to plant tissue culture
CO4	Demonstrate skills of callus culture through hands on experience.
CO5	Understand the biotransformation technique for production of secondary metabolites

Name of the Programme : B.Sc (BZC, ABC)

Semester : V/VI

Title of the Course : Mushroom Cultivation

Course Code : SECBOT 502

Course	. 02001002
CO1	Comprehend the value of mushrooms
CO2	Identify the methods of composting and the materials required
CO3	Acquire a critical knowledge on spawning and casing
CO4	Demonstrate skills in cultivation of various mushrooms
CO5	Understand the Post-harvest technology

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ZOOLOGY

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : B.Sc (BZC)

Semester : Title of the Course : Course Code : Animal Diversity - I Biology of Non-Chordates

ZOO T11A

CO1	Gain knowledge in the fundamental concepts underlying the structural complexity in the
	organization of invertebrates
CO2	Understand biology and pathogenicity of parasites and their adaptations analyse remedial and preventive measures and promote the same in public domain
CO2	
CO3	Appreciate and evaluate the economic, commercial, medicinal and culture importance of invertebrates and their larval stages in relation to phylogeny
CO3	invertebrates and their larval stages in relation to phylogeny
CO4	Describe the significance of connecting links in understanding the concept of evolution
CO5	Explain the significance of specific phenomena in different groups of invertebrates in relation to
	their adaptability for survival

Name of the Programme : B.Sc (BZC)

Semester

Title of the Course Animal Diversity-Biology of Chordates.

Course Code 700 T21 A

Course	Code . Zoo 121A
CO1	Gain knowledge in the major Chordate groups, describe their salient features, appreciate the
	diversity and analyse the uniqueness of different groups.
CO2	Understand the fundamental organization of chordates and evaluate the similarities and
CO2	differences among the different groups of chordates in the light o evolutionary significance.
CO3	Comprehend and compare the morphology and anatomy of different classes of chordates and apply the same to their fitness in the ecological habitats
COS	apply the same to their fitness in the ecological habitats
CO4	Develop the skill of identifying the vertebrate fauna in general and South Indian fauna in specific.
CO5	Acquaint with the significance of unique mechanisms and behavioural patterns exhibited by
	different groups of chordates.

Name of the Programme : B.Sc (BZC)

Semester III

Title of the Course : Cell Biology, Cellular Metabolism, Genetics, Organic Evolution

and Animal Behaviour

Course Code ZOOT31A

CO1	To understand the basic unit of the living organisms and to differentiate the organisms by their cell structure. Describe fine structure and function of plasma membrane and different cell organelles of eukaryotic cell.
CO2	To understand the history of origin of branch of genetics, gain knowledge on heredity, interaction of genes, various types of inheritance patterns existing in animals
CO3	Acquiring in-depth knowledge on various of aspects of genetics involved in sex determination, human karyotyping and mutations of chromosomes resulting in various disorders
CO4	Understand the central dogma of molecular biology and flow of genetic information from DNA to proteins.
CO5	Understand the principles and forces of evolution of life on earth, the process of evolution of new species and apply the same to develop new and advanced varieties of animals for the benefit of the society

Name of the Programme : Semester : Title of the Course : Course Code : : B.Sc (BZC)

Health and Hygiene

LSCZOOT01

	, 2002-01-01
CO1	Able to understand how can we use available information to optimize our diet
CO2	Able to understand how can nutrition be used for a healthy life
CO3	Awareness in public through digital media viz., mobile apps
CO4	To create awareness on community health and hygiene
CO5	To provide knowledge on different health indicators and types of hygiene methods

Name of the Programme : Semester : Title of the Course : Course Code : B.Sc (BZC)

Embryology, Physiology and Ecology

ZOO401

CO1	Comprehend and describe the process of formation and fusion of gametes and appraise the significance of foetal membranes and placenta in the formation of an embryo.
	significance of foetal membranes and placenta in the formation of an embryo.
CO2	Understand the mechanism of functioning of the different organ systems of a vertebrate and
	analyse their coordination in adapting the animal to the changing environment.
CO2	Identify and describe the histology of various organs of a mammal and developmental stages of
CO3	chick embryo at different hours of incubation.
CO4	Develop skill in conducting tests for identification of the presence of biomolecules and excretory
CO4	products and estimating various water parameters.
CO5	Acquaint with the structural and functional aspects of an ecosystem, concept of community and
	population - their characteristics and interactions.

Name of the Programme : B.Sc (BZC) Semester : Title of the Course :

Immunology and Animal Biotechnology

Course Code ZOO402

CO1	Understand the basic concepts of immune system and hypersensitivity reactions and apply the same in identification of diseases and describe the triggering and regulation of immunological response.
CO2	Acquire basic knowledge in r DNA technology and acquaint with the techniques of PCR, hybridization and DNA sequencing.
CO3	Comprehend Animal Cell Culture technology, Reproductive technologies and techniques.
CO4	Apply the techniques of animal biotechnology in various fields like industry, medicine, animal husbandry etc., for improving the quality of life.
CO5	Acquaint with safety measures in using the techniques and develop skills in handling and maintaining laboratory equipment.

Name of the Programme : Semester : Title of the Course : Course Code : B.Sc (BZC) V/VI

Sustainable Aquaculture Management

SEC- 6A501

Course	Code . SEC-0A301
CO1	Evaluate the present status of aquaculture at the Global level and National level
CO2	Classify different types of ponds used in aquaculture
CO3	Demonstrate induced breeding of carps
CO4	Acquire critical knowledge on commercial importance of shrimps
CO5	Identify fin and shell fish diseases

Name of the Programme : Semester : B.Sc (BZC) V/VI

Title of the Course Postharvest Technology of Fish and Fisheries SEC- 7A 502 :

Course Code

CO1	Identify the types of preservation methods employed in aquaculture
CO2	Choose the suitable processing methods in aquaculture
CO3	They can earn while they learn
CO4	Maintain the standard quality control protocols laid down in aqua industry
CO5	Identify the best seafood quality assurance system

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF ACQUACULTURE

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : B.Sc (ABC)

Semester

Title of the Course : Basic Principles of Aquaculture

Course Code AQTT11A

CO1	Understand the concept of blue revolution, analyse the history and compare the present status of aquaculture at global, national and state levels and its significance over agriculture and gain knowledge in the various aquaculture resources and advantages of culture over capture.
CO2	Acquire knowledge in the different types of aquaculture, culture systems and culture methods in practice worldwide.
CO3	Gain knowledge in the different types of culture ponds.
CO4	Understand the arrangement of different types of ponds in a fish farm and design an ideal fish farm.
CO5	Comprehend the best management practices to be adopted in aquaculture for good yield and acquire the skill in the analysis of water and soil parameters of a culture pond.

Name of the Programme : B.Sc (ABC)

Semester

Title of the Course : Biology of Fin fish & Shell fish

Course Code AOTT21A

Course	· · · · · · · · · · · · · · · · · · ·
CO1	Classify the finfish and shellfish, analyse the cultivable species of fin fish and shellfish of commercial importance, describe their salient features and appreciate the diversity and uniqueness of different groups.
CO2	Comprehend the relationship between food and growth, age and growth, hormones and growth in cultivable fin and shell fish.
CO3	Gain knowledge and compare the feeding habits, mouth parts and digestive systems and analyse gut contents.
CO4	Develop the skill of identifying the gut contents, gonadal maturity and fecundity and comprehend the concept of breeding behaviour, embryonic and larval development of cultivable aquatic fin and shell fish.
CO5	Acquaint with the significance of unique mechanisms and behavioural patterns like sense organs, electric organs, buoyancy, moulting and metamorphosis exhibited by finfish and shell fish.

Name of the Programme : B.Sc (ABC)
Semester : III
Title of the Course : Fresh water & Brackish water Aquaculture

Course	Code : AQ1131A
CO1	Learn the Status, Scope and Prospects of fresh water aquaculture in the world, India and AP.
CO2	Learn about Major Cultivable Indian Carps and Exotic fish Species introduced in India
CO3	Know about recent developments in the culture of clarius, anabas and murrels and special systems of aquaculture
CO4	Gain knowledge of commercially valuable Fresh water prawns of India and their culturing methods
CO5	Learn about culturing of brackish water Prawn Species P. mondon and L. vannamei and hatchery technology's involved

B.Sc (BZC) Name of the Programme Semester III Title of the Course **Poultry Farming** PF-201 Course Code Understand the basic concepts of poultry farming and apply the same in the management CO1 practices of poultry farming CO2 Acquire knowledge in the preparation of project report for banking and Insurance Acquaint with the poultry feed management practices CO3 Understand the nutrient requirements for different stages of layers and Broilers CO4 CO₅ Gain knowledge in harvesting of eggs and recycling of poultry waste Name of the Programme B.Sc (ABC) Semester IV Title of the Course Fish Nutrition & Feed technology Course Code AOTT01 Understand Nutritional requirements of cultivable fishes and factors affecting energy partitioning CO1 and feeding. CO2 Know different types of feed and FCR and different types of feeders CO3 Gain Knowledge of Feed manufacture and storage methods of feeds CO4 Understand the value of Feed additives and Non-Nutrient ingredients To create awareness of different nutritional deficiency and importance of natural and CO₅ supplementary feeds and balanced diet. Name of the Programme B.Sc (ABC) Semester Title of the Course Fish Health Management and Fisheries Economics, **Extension and Marketing** Course Code AQTT42 Describe the various fungal, viral and bacterial diseases of fin fish and their prevention and CO₁ Explain the various viral, bacterial and protozoan diseases of shell fish and their prevention and CO2 therapy. CO3 Describe the fish health management strategies. CO4 Explain different fisheries economic policies. Describe the various schemes for the welfare of fishermen community. CO5 Name of the Programme B.Sc (ABC) Semester V/VI Title of the Course Aquarium Management and Ornamental fish culture SECAQU-601C Course Code CO1 After successful completion of this course student will be able to CO2 Understand the design and construction of aquarium CO3 Identify the ornamental fresh water fishes CO4 Identify the marine ornamental fisher sources CO5 Know the mass production of ornamental fishes Name of the Programme B.Sc (ABC) Semester V/VI Title of the Course Postharvest Technology of Fish and Fisheries Course Code SECAQU-602C CO1 Identify the types of preservation methods employed in aquaculture CO2 Choose the suitable processing methods in aquaculture CO3 They can earn while they learn CO4 | Maintain the standard quality control protocols laid down in aqua industry CO5 Identify the best seafood quality assurance system

VUYYURU-521165, KRISHNA DISTRICT, ANDHRA PRADESH

DEPARTMENT OF COMMERCE

COURSE OUTCOMES (CO'S)

2022-23

Name of the Programme : B.Com (General, Computer Applications, E-Commerce & Computers)

Semester

Title of the Course Fundamentals of Accounting

Course Code COMT11B

CO1	Identify transactions and events that need to be recorded in the books of accounts.
CO2	Equip with the knowledge of accounting process and preparation of final accounts of sole trader
CO3	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
CO4	Analyse the difference between cash book and pass book in terms of balance and make reconciliation.
CO5	Critically examine the balance sheets of a sole trader for different accounting periods.

Name of the Programme : B.Com (General, Computer Applications)

Semester

Title of the Course **Business Organization and Management**

Course Code COMT12A

Course	
CO1	Recall the basic knowledge on conceptual areas such as commerce trade and industry of different types of business organizations.
CO2	Have a demonstrated understanding on nature purpose and importance of different types of organizations
CO3	Articulate the fundamentals of joint-stock company as per companies Act 2013
CO4	Appraise the documentation and incorporation stages of a company
CO5	Discuss and implement the managerial traits and talents essential for managing business

Name of the Programme : B.Com (General)

Semester

Title of the Course **Business Environment**

Course Code COMT13

	, 6040
CO1	Understand how an entity systematically explores the external environment in which business operates
CO2	To enlighten/familiarize the impact of economic environment and its effect on government policies for development of business
CO3	To acquire specialized knowledge relating to economic policies in India.
CO4	Critically examine the economic, social political and legal environment components in business decision making
CO5	Synthesize multiple perspective to formulate responses to opportunities and institutions in international environment.

Name of the Programme : B.Com (E-Commerce & Computers)

Semester

Title of the Course Principles of management

Course	e Code : COM14P
CO1	Understand different forms of business organizations
CO2	Comprehend the nature of Joint Stock Company and formalities to promote a Company
CO3	Describe the Social Responsibility of Business towards the society.
CO4	Critically examine the various organizations of the business firms and judge the best among them
CO5	Design and plan to register a business firm. Prepare different documents to register a company at

B.Com (E-Commerce & Computers) Name of the Programme Semester Title of the Course Insurance promotion Course Code COMT15S CO1 Understand the online business and its advantages and disadvantages CO2 Recognize new channels of marketing, their scope and steps involved CO3 | Analyse the procurement, payment process, security and shipping in online business CO4 Create new marketing tools for online business Define search engine, payment gateways and SEO techniques. CO5 Name of the Programme B.Com (General, Computer Applications, E-Commerce & Computers) Semester Title of the Course Financial Accounting Course Code COMT21A Able to discuss and describe various methods of depreciation and valuation of depreciation to CO1 depreciable assets. Able to discuss and describe different types of reserves and provisions and give accounting CO₂ treatment for reserves and provisions in final accounts Grasp the accounting treatment in issue of negotiable instruments and also learn the techniques of CO₃ accounting to bills Gain an understanding with regard to special transactions related to accounting for consignment CO4 CO5 Gain the knowledge with regard to special transactions relating to joint Venture business B.Com (General, Computer Applications, E-Commerce & Computers) Name of the Programme Semester Title of the Course **BUSINESS ECONOMICS** Course Code COMT23B CO1 Describe the nature of economics in dealing with the issues of scarcity of resources. CO2 | Analyse supply and demand analysis and its impact on consumer behaviour CO3 Evaluate the factors, such as production and costs affecting firms behaviour CO4 Recognize market failure and the role of government in dealing with those failures Apply economic models for managerial problems, identify their relationships, and formulate the CO₅ decision making tools to be applied for business Name of the Programme B.Com (General) Semester Title of the Course Banking Theory & Practice Course Code COMT22B CO1 Understand the basic concepts of banks and functions of commercial banks. CO2 Demonstrate an awareness of law and practice in a banking context. CO3 Engage in critical analysis of the practice of banking law. CO4 Organize information as it relates to the regulation of banking products and services. CO5 Formulate the procedure for better service to the customers from various banking innovations Name of the Programme B.Com (General, Computer Applications, E-Commerce & Computers) Semester II Title of the Course Advertising Course Code CAD-201G/C CO1 Understand the field of Advertising CO2 | Comprehend opportunities and challenges in Advertising sector CO3 Prepare a primary advertising model CO4 Understand applying of related skills CO5 Examine the scope for making advertising a future career Syllabus

Name of the Programme : B.Com (General, Computer Applications, E-Commerce & Computers)

Semester

Title of the Course : Retailing Course Code CR202G/C

Course	Code . CR202G/C
CO1	Know the retailing business, its growth in India and social impact
CO2	Understand the and organization and supply in retailing
CO3	Comprehend the opportunities and challenges in retailing
CO4	Learn the functions that support outlet operations, sales and services
CO5	Create a shopping experience model that builds customer loyalty and business promotion

Name of the Programme : Semester : Title of the Course : Course Code : B.Com (General, Computer Applications, E-Commerce & Computers)

Advanced Accounting

COMT31

CO1	Student will be able to understand different situations to calculate interest on various instalments and understand need for re-possession and the procedure in case of default.
CO2	Student will be able to understand Profit & Non-profit concern and to ascertain the surplus/deficit
	relating to various non-trading concerns
CO3	Student will get the knowledge of partnership business, its accounts and modes of settlement in
CO3	case of partnership restructuring.
CO4	Student will acquire the capacity to settle the accounts in case of dissolution by realization of
CO4	various assets.
CO5	Student will obtain the knowledge of branch accounting procedure and the process of conversion
	of foreign branch transactions into Indian currency

Name of the Programme : Semester : Title of the Course : Course Code : B.Com (General, Computer Applications)

Business Statistics

Course Code COMT32

Course	
CO1	Students will be able to understand the basic knowledge and characteristics of business statistics.
CO2	Determine the value of the mean, the median, and the mode of ungrouped data.
CO3	Explains the disparity of data from one another delivering a precise view of the distribution of
COS	data.
CO4	Design, Evaluate and apply regression analysis.
CO5	Students will able to understand interpret indexes to identify trends in a data set. And what the
	trend, seasonality, cyclical irregularity in time series.

Name of the Programme : B.Com (General)

III

Semester : Title of the Course : Course Code : Marketing COMT33

CO1	To introduce the concepts of marketing and understand the factors influence the market environment.
CO2	Analyse the consumer market models and enlightens consumer buyer behaviour models.
CO3	Understand the concept of product and identify the need of product mix and product line decisions.
CO4	Develop an idea about pricing strategies and pricing decisions.
CO5	Enhance the students about decisions regarding promotion and distribution channels.

Name of the Programme B.Com (E-Commerce & Computers) Semester Title of the Course e-Commerce COMT34 Course Code CO1 Students understand the mechanism of E-commerce CO2 | Students themselves equip specialization in website designing for E-Commerce CO3 | Students are able to enhance their skills in operational services of E-Commerce Students are able to involve in activities of E-Commerce CO4 CO5 | Students are able to create awareness among the public one commerce activities Name of the Programme B.Com (General, Computer Applications, E-Commerce & Computers) Semester Title of the Course Online Business COMT 35S Course Code CO1 Understand the online business and its advantages and disadvantages CO2 Recognize new channels of marketing, their scope and steps involved CO₃ Analyse the procurement, payment process, security and shipping in online business B.Com (General, Computer Applications, E-Commerce & Computers) Name of the Programme Semester Title of the Course Insurance promotion Course Code COMT 36SI CO1 Understand the online business and its advantages and disadvantages CO2 Recognize new channels of marketing, their scope and steps involved CO3 | Analyse the procurement, payment process, security and shipping in online business Name of the Programme B.Com (General, Computer Applications, E-Commerce & Computers) Semester Title of the Course Corporate Accounting Course Code COMT41A The students will have a good command on issue of shares and also forfeiture and reissue of CO₁ The students will be able to apply various modes for redemption of Debentures and also CO₂ they can be able to utilize the free reserves for issue of bonus shares. The student will be able to determine the value of goodwill by using different methods. CO3 The students will have a good command on ascertainment of value of share by using Asset backing CO4 method and Yield method. The students will acquire the knowledge of preparing final accounts of companies as per the CO₅ provisions of Companies Act 2013 Name of the Programme B.Com (General, Computer Applications, E-Commerce & Computers) Semester Title of the Course Cost and Management Accounting Course Code COMT45 Impart knowledge on the fundamental concept of cost accounting and management accounting. CO1 Comprehend the knowledge in effective control of raw materials, work in progress, and labour CO₂ Students will understand the profit making decisions in complex situations of any business CO₃ Organisation Students will critically understanding the financial and management accounting importance in CO4 understanding the business operations using different tools Students will critically understanding the cash and fund flow concept and impact of cash flow on CO₅ business operations

Name of the Programme : B.Com (General)

Semester : IV

Title of the Course : Income Tax Course Code : COMT43A

CO1	Acquire knowledge about tax rate schedule and residential status of an individual
CO2	Enlist the ability of provisions of income from salary and its taxability
CO3	The student can build an idea about taxability of income from house property and business income

CO3 The student can build on idea about taxability of income from house property and business income

CO4 Comprehend the knowledge about Income from capital gain

CO5 Import knowledge in the provisions of Income from other sources and to compute the Total income

Name of the Programme : B.Com (Computer Applications & E-Commerce & Computers)

Semester : IV

Title of the Course : Taxation
Course Code : COMT48

CO1	Impact knowledge on the provisions of income tax law and practice
CO2	Enlist the ability of provisions of income from salary and House property its taxability
CO3	The student can acquire knowledge in calculation of business income and professional income
CO4	Acquaint the students with basic principles of goods and service tax.
CO5	To impart knowledge and best practices in corresponding to trade appliance at customs.

Name of the Programme : B.Com (General, Computer Applications, E-Commerce & Computers)

Semester : IV

Title of the Course : Business Laws Course Code : COMT42A

CO1	Impacts the students in acquiring the basic knowledge regarding contracts in business. And impact of it to "QUID-PRO-QUO" for the enforceability of the contract
CO2	Students will have clarity on competency of persons, modes of discharge of contract, analysing and
CO2	approaching to remedies in times of breach of contract.
CO3	Students will get knowledge in law and procedure relating to sale of goods in Indian context.
CO4	Students are able to acquire knowledge in law and procedure relating to consumer rights
CO5	Students will get knowledge in new dimensions in business Organisation relating to cyber laws

Name of the Programme : B.Com (General)

Semester : IV

Title of the Course : Auditing Course Code : COMT46

CO1	Students will develop the knowledge & importance of auditing and accounting in modern era.
CO2	Students will have the ability of understanding the applicability of auditing types for different
	organizations.
CO3	Students will have knowledge in planning the effectiveness of auditing of any Organisation.
CO4	Students will have proper understanding of the requirements of documentary evidence for the
	completion of audit

CO5 Students will have the knowledge of the competency of person, his rights and duties regarding auditing and audit report.

Name of the Programme : B.Com (General)

Semester

Title of the Course : Goods and Service Tax

COMT44 Course Code

CO1	Understand the basic principles underlying the Indirect Taxation Statutes.
CO2	Examine the method of tax credit. Input and Output Tax credit and Cross Utilisation of Input Tax
CO2	Credit.
CO3	Identify and analyse the procedural aspects under different applicable statutes related to GST.
CO4	Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.
CO4	determination of duty liability.
CO5	Develop various GST Returns and reports for business transactions in Tally.

Name of the Programme : . B.Com (General, E-Commerce & Computers)

Semester V/VI

Title of the Course : **Advanced Corporate Accounting**

CACA-501G/C Course Code

Course	CACA-3010/C
CO1	The students are able to calculate purchase consideration and different methods of determining purchase consideration and its accounting treatment.
CO2	Students will acquire the knowledge on provisions for amalgamation of company as per accounting standard 14 and its treatment.
CO3	The students will get the knowledge on forms of internal reconstruction and alteration and reduction of share capital and its accounting treatment.
CO4	The students will be able to prepare consolidated financial statements and calculate minority interest and its accounting treatment.
CO5	Students will be able to prepare liquidators final statement of accounts at the time of winding up of a company. and are able to calculate liquidators remuneration and acquire the capacity for preparation of statement of affairs and deficiency account and its accounting treatment

Name of the Programme : Semester : Title of the Course : Course Code : B.Com (General, E-Commerce & Computers)

V/VI

Software Solutions to Accounting

CSSA-502 G/C

	Course	. CSSA-302 G/C	
	CO1	Understand the technical environment of accounting softwares.	
	CO2	Highlight the major accounting software in India.	
	CO3	Apply basics of accounting software into business firms for accounting transactions.	
	CO4	Understand the various versions of Tally and other softwares.	
	CO5	Integrate the concept of different Accounting softwares for accounting purpose	1

B.Com (General, E-Commerce & Computers)

V/VI

Name of the Programme : Semester : Title of the Course : Advertising and Media Planning

CAMD 503G/C Course Code

Course	CAMP-503G/C
CO1	Understand the role of advertising in business environment
CO2	Understand the legal and ethical issues in advertising
CO3	Acquire skills in creating and developing advertisements
CO4	Understand up-to-date advances in the current media industry.
CO5	Acquire the necessary skills for planning an advertising media campaign.

Name of the Programme : B.Com (General, E-Commerce & Computers)

Semester V/VI

Title of the Course Sales Promotion and Practice

Course Code CSPP -504 G/C

CO_{2}	C_{-1}		1	1	1	1 •	1 T) 1 :	
CO1	Ana	lysis	of v	arious	sales	pron	notion	activiti	es

CO2 Get exposed to new trends in sales Promotion

CO3 Understand the concepts of creativity in sales promotion

CO4 Enhance skills to motivate the salesperson to reach their targets

CO5 Develop the skills of designing of sales promotion events

Name of the Programme : B.Com (General)

Semester : V/VI
Title of the Course : Digital Marketing
CDM -505 G

Course	Code . CDW -303 G
CO1	Analyse online Micro and Macro Environment
CO2	Design and create website
CO3	Discuss search engine marketing
CO4	Create blogs, videos, and share
CO5	Enhance skills to motivate the salesperson to reach their targets

Name of the Programme : B.Com (General)

Semester V/VI

Title of the Course : Service Marketing CSM -506 G Course Code

	Course	Code . CDIII 200 G
	CO1	Discuss the reasons for growth of service sector.
	CO2	Examine the marketing strategies of Banking Services, insurance and education services.
	CO3	Review conflict handling and customer Responses in services marketing
	CO4	Describe segmentation strategies in service marketing.
	CO5	Suggest measures to improve services quality and their service delivery.