TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (BOYS)

MANUGURU

BHADRARI KOTHAGUDEM DISTRICT

(Affiliated to Kakatiya University- Warangal)

PROGRAMME OUTCOMES OF BA

S.No	**The students who complete B.A. course successfully will be able to:**
PO1	Study various subjects under this programme BA enables the students to acquire life skills for a better human being.
PO2	Develop language competence and expected to be proficient in oral as well as written communication
PO3	Inculcate sense of understanding about the society.
PO4	Inculcate a sense of national pride and respect for the nation by studying varied cultures, customs,literature,architecture,constitution,life skills, music society etc.
PO5	understand the international relations and its importance for building better society.
PO6	Imbibe leadership qualities, able administrators, extension workers etc
PO7	Understand the features, components and tenets of geography of the world.
PO8	Understand the basic concepts of polity and politics how make society.
PO9	know the features of good citizenship and responsibilities towards the nation.
PO10	Understand the structure of our constitution and its essence. They will know the structure of governments and governance

S.No	**The students who complete B.Com course successfully will be able to:**
PO1	Develop wide range of business, legal, stastical, financial and entrepreneurial expertise.
PO2	Apply managerial skills, abilities and knowledge in a business organization and be capable of maintaining business accounts.
PO3	Enhance the capability of decision making at personal and personal levels.
PO4	Undestand the industry related managerial accounting skills for better professional opportunities.
PO5	Understand how to operate business successfully in a continuously changing environment.
PO6	Develop entrepreneurship spirit and participate effectively in social, commercial issues ultimately leading to national development.
PO7	Understand international trade agreements.
PO8	Study stock market and its business transactions.
PO9	understand self employment opportunities for their better careers.
PO10	Set up business units for self employment to lead honorable and competitive life.

S.No	**The students who complete B.Sc course successfully will be able to:**
PO1	Acquire theoretical as well as practical knowledge in their disciplines
PO2	Understand the basis of science for coherent understanding of the academic field to pursue multi and inter disciplinary
PO3	plan and execute experiments or investigations, analyze and intrepret data information collected using appropriate methods.
PO4	Develop scientific temper and reasoning ability.
PO5	Think critically, follow innovations and developments in science and technology
PO6	Inculcate research temper and become self employed in organic agriculture, mushroom cultivation, medicinal plant products and plant propagation etc. the basis of science for coherent understanding of the academic field to pursue multi and inter disciplinary
PO7	Understand the features of zoo-geography of the world.
PO8	Know the basics of the life cycles of different living beings on this earth.
PO9	Understand the eco system and how to protect it.
PO10	Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
PO11	To inculcate the scientific temperament in the students and outside the scientific community.
PO12	Solve the problem and also think methodically, independently and draw a logical conclusion.
PO13	Will be able pursue research in respective science stream
PO14	Scientific temper will be developed in Students
PO15	Students will become employable; they will be eligible for career opportunities in Industry, or will be able to opt for entrepreneurship
PO16	Capability of demonstrating comprehensive knowledge of mathematics and understanding of one or more disciplines which form a part of an undergraduate programme of study.
PO17	Learn to tolerate diverse ideas and different points of view
PO18	Be initiated into the basics of research
PO19	Apply the basic principles of Physics to the events occurring around us and also in the world.

PROGRAMME SPECIFIC OUTCOMES

DEPARTMENT OF ENGLISH

PROGRAMME SPECIFIC OUTCOMES

S.No	The 14 -credit, four-semester course seeks to enhance the English language skills of undergraduate student by
PSO-1	Strengthening their grammar and vocabulary
PSO-2.	Improving their reading and writing skills
PSO-3.	Enhancing their listening their speaking skills
PSO-4.	Imparting to them needful life skills and human values
PSO-5	Encouraging them to think creatively and critically
PSO-6	Exposing to them a variety of content-rich texts
PSO-7	Expanding their emotional intelligence
PSO-8	Developing gender sensitivity among them

DEPARTMENT OF TELUGU
PROGRAMME SPECIFIC OUTCOMES

S.No	TELUGU
PSO-1	Fostering literary, cultural and creative values
PSO-2.	Improve writing skills like poems, stories, novels, etc

DEPARTMENT OF ECONOMICS

PROGRAM SPECIFIC OUTCOMES

S.No	B.A ECONOMICS
PSO 1.	The students after completion of B.A. course with Economics will develop understanding the Basic Concepts of Economics and Principles in Economics.
PSO 2.	The students will know about Consumer's behavior, Demand analysis, Cardinal and Ordinal Utility Analysis, Indifference Curves Analysis.
PSO 3.	The Students will know about the Theories of Production, Iso-quants, and Law of Returns to Scale, Law of Variable Proportion.
PSO 4.	The Student will familiarize with various concepts of Costs and Revenues and understand the relationship between average and marginal costs Average Revenue and Marginal Revenues.
PSO 5.	The Economics Graduate will know about the concepts of Markets, Types of Markets, Features of Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly, Duopoly Markets, and Price and Equilibrium Determination in various markets. Analysis of Kinked Demand Curve, and Cournot's version of the duopoly.

PSO 6.	Economics Students will explain the concepts of Circular Flow of Income and National Income concepts like GNP, NNP, GDP, NDP, PCI, and Disposable Income, Components of National Income, and Methods of Measurement of National Income.
PSO 7.	Economic graduates are familiar with the knowledge of Classical and Modern Theories of Employment, Interest, Investment, Types of Investments, Determinants of level of Investment, Marginal Efficiency of Capital, and Marginal Efficiency of Investment.
PSO 8.	Economic graduates have knowledge of Supply of Money and Demand for Money, Fisher's and Cambridge Versions of Money, and Keynes's theory of Money and Prices.
PSO 9.	Economic graduates will explain the concepts of Inflation, Types, Causes, Effects of Inflation, Measures to Control Inflation, the concept of Philips Curve, Deflation, Stagflation, and Trade Cycles, causes, and Phases of Trade Cycles.
PSO 10.	The Economics Student can collect the Primary and Secondary data, Process the data, compute the data by using Statistical tool like Mean, Median, Mode, Geometric Mean, and Harmonic Mean, Measures of Dispersion, Range, Quartile Deviation, Mean Deviation, Standard Deviation and Coefficient of Variation, and present the data with graphs and diagrams.
PSO 11.	Economic graduate are familiar with the concepts of Correlation, Karl Pearson's Correlation Co-efficient, Spearmen's Rank Correlation, and Regression, Index Numbers, Construction of Index Numbers, Types of Index Numbers: Laspayer, Paasche, and Fisher methods of Index Numbers and calculates Index Numbers. Time Series Analysis,

PSO 12.	Economics students in general will be able to understand the Structure of the Indian Economy, the composition of National Income and Employment, the importance of natural resources, Population and their implications for Indian Economy, Planning concepts and objectives of Five Year Plans and NITI Aayog.
PSO 13.	The Economics Graduate will assess the importance of agriculture; Trends in Agricultural Production and Productivity, Land Reforms, Green Revolution, Agriculture Finance, Agricultural Marketing, Agricultural Price Policy and Food Security in India.
PSO 14.	The Economics students are familiar with the concepts of Income Inequalities, Poverty, and Unemployment: Magnitude, Types, Causes, Consequences, and Poverty Alleviation and Employment Generation Programs in India.
PSO 15.	The economics students have knowledge of Indian Industry, growth, Importance and Problems of Indian Industry, Industrial Policy Resolutions of 1948, 1956, and 1991, and NITI Aayog.
PSO 16.	The Economic Students will understand the role of Service Sector in Indian Economy and understand the issues relating to infrastructural development like Transport, Banking, Insurance, and Information Technology and Communication and Foreign Direct Investment (FDI).
PSO 17.	The Economic Student will understand the Telangana Economy in terms of Human Resources, Demographic Features, Occupational and Sectoral Distribution of Population, Education and Health and Regional Imbalances: Causes, Consequences and Remedial Measures.
PSO 18.	The Economic Student will understand the GSDP, Development Trends in GSDP and Per Capita Income, Sectoral Contribution to GSDP, Poverty and Unemployment in Telangana, Trends, Causes and Consequences. Poverty Alleviation & Employment Generation Programmes in Telangana.
PSO 19.	The Economic Student will understand the importance of Agriculture in Telangana Economy, Production, Productivity of Agriculture, Determinants of Agricultural Productivity, Cropping Pattern, Land reforms. Irrigation Sources and Trends, Mission Kakatiya, Agricultural Credit and Rural Indebtedness.
PSO 20.	The Economic graduate will know the structure of Industrial Sector in Telangana, Growth and Pattern of Industrial Development, Industrial policy of Telangana, Special Economic Zones (SEZ)–Role of Small Scale Industries in the Telangana, Problems & Remedial Measures of Small Scale Industries: Issue of Sickness–Industrial Finance in Telangana
PSO 21.	The Economic graduate understand the importance of Service Sector in the Telangana, Infrastructure like Transport, Energy, Communication and Information Technology (IT) and Information Technology enabled servers (ITES).

DEPARTMENT OF HISTORY

PROGRAMME SPECIFIC OUTCOMES

S.No	B.A HISTORY
PSO-1.	Understand the basic concepts like National Income, Poverty, Employment, International trade. Fiscal and monetary policies, Economic conditions of various historic periods, Satavahana's Agriculture economy from ancient period to modern times and their role in administration for formulating relevant policies for effective utilization of resources and tackling various problems like unemployment and improved standard of living
PSO 2.	To analyze the economic importance of various sectors like agriculture, industry and service in different dynasties that influence administration like Chola administration (Local self Government), Mauryan administration (Urban Governance) and British administration
PSO 3.	To understand the impact of agriculture and foreign trade in economic development that attract foreign invaders towards India, resulting in changed administration in due course up to and after independence
PSO 4.	To provide life skills required for gainful employment by using domain knowledge such as Economic Services, Historians/ History writing and bureaucrats at various levels

DEPARTMENT OF COMPUTER APPLICATIONS
PROGRAMME SPECIFIC OUTCOMES

S.No	B.A COMPUTER APPLICATIONS
PSO-1	Students will be prepared to make their career in the IT segments like Software services.
PSO-2.	Business Process Management (BPM/BPO).
PSO-3.	Students can also appear for various competitive exams including IT officers in variousorganizations and can pursue for higher studies.
PSO-4.	Attain the ability to design and develop Computer Applications, evaluate and recognize potential skills and provide innovative solutions.

DEPARTMENT OF POLITICAL SCIENCE

PROGRAMME SPECIFIC OUTCOMES

S.No	B.A.POLITICAL SCIENCE
PSO-1	Understanding the nature and developments in national and international politics
PSO-2.	Analyzing the Indian constitutional provisions, major legislations and reforms
PSO-3.	Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society
PSO-4.	Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society
PSO-5	Building overall consciousness regarding national political history, international relations and present Indian and Western political thinkers.
PSO-6	Encouraging a comprehensive, comparative understanding of specific world constitutions such as USA, China, Russia.
PSO-7	Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.
PSO-8	Examining India's foreign relations with her neighbours and great powers.

DEPARTMENT OF PUBLIC ADMINISTRATION
PROGRAMME SPECIFIC OUTCOMES

S.No	B.A PUBLIC ADMINISTRATION
PSO-1	Understand the basic concepts of public administration
PSO-2.	General concept of public administration and bureaucracy
PSO-3.	Understanding knowledge of human resource management
PSO-4.	Understanding knowledge of public budgeting and finance
PSO-5	Understanding knowledge of policy analysis
PSO-6	Understanding knowledge of information management and technology
PSO-7	Understanding how administrative responsibility, accountability, efficiency, diversity, and teamwork within the context of government and non-profit public service programs
PSO-8	Have the research skills to critically analyze public administration issues and analyze managerial issues and policy recommendations
PSO-9	Have the ability to communicate and interact productively with a diverse and changing workforce and citizenry
PSO-10	Be able to develop/formulate a public policy response to social or economic problem

DEPARTMENT OF COMMERCE
PROGRAMME SPECIFIC OUTCOMES

S.No	COMMERCE
PSO-1	Learners venture into managerial positions, Accounting areas, Banking sectors, Auditing, Company secretary ship, Teaching, Professor, Stock Agents, Government Employment etc
PSO-2.	Enables learners to prove themselves in different Professional examinations like CA, CS, ICWA, CMA and other diploma courses such as Tally ERP 9 and MS –Excel
PSO-3.	Gain through systematic and subject skills within various disciplines of commerce' business, business law, business statistics, banking, accounting tax ,finance cost accounting, entrepreneurship, auditing, strategic management and marketing
PSO-4.	Learners further move towards research in the field of commerce.
PSO-5	Enables students to demonstrate Progressive learning of various tax issues and tax forms related to individuals and businessmen and setting up their own business start up.
PSO-6	The vast syllabi covers various fields covers various fields of commerce and accountancy which helps students grasp practical and theoretical knowledge

DEPARTMENT OF BOTANY

PROGRAMME SPECIFIC OUTCOMES

S.No	BOTANY
PSO-1	Understand the nature of microbial diversity and basic concepts of lower group of plants, classifications of Algae, Fungi, Bryophyta, Pteridophyta
PSO-2.	Understand morphology and reproductive parts of Gymnosperms, basic concepts of Plant Taxonomy, Plant identification and systematic study of families
PSO-3.	Basic concepts of Ecology, Plants and environment and succession in plants
PSO-4.	Understand Plant Anatomy and Embryology of Angiosperms
PSO-5	Students will have Critical understanding of Cell Biology and Plant metabolisms and Plant regulations
PSO-6	Gain complete knowledge of morphology, nutrional value and economic importance of vegetables, cereals, millets, beverages, edible oils and other plant products
PSO-7	Acquire fundamentals of Tissue culture and Biotechnology its applications and hands on experience
PSO-8	Students will have strong fundamentals on modern and classical aspects of Botany
PSO-9	Understand knowledge of Botany is an essential pre-requisite for the pursuit of many applied sciences
PSO-10	To facilitate students for taking up and shaping a successful career in Botany

DEPARTMENT OF ZOOLOGY

PROGRAMME SPECIFIC OUTCOMES

S.No	ZOOLOGY
PSO-1	Understand the nature and basic concepts of cell structure and functions, genetics, taxonomy, animal physiology, ecology, applied zoology and aquatic Biology
PSO-2.	Analyses the relationships among animals, plants and various kind of microbes
PSO-3.	Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture like dairy farming, Vermiculture, Poultry and Medicine
PSO-4.	Gains knowledge about research methodologies, effective communication and skills of problem scientific thinking and solving methods
PSO-5	Perform procedures as per laboratory standards areas of Taxonomy, animal Physiology, Biochemistry, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, parazoology, Nematology, Entomology, Sericulture, Fish biology, Immunology, Animal biotechnology and research methodology
PSO-6	Contributes the knowledge for Human & other animal welfare

DEPARTMENT OF CHEMISTRY

PROGRAMME SPECIFIC OUTCOMES

S.No	CHEMISTRY
PSO-1	Be versatile in classical laboratory techniques, use instrumental methods for analysis as well as synthesis and follow standardized procedures and regulations in handling and disposal of chemicals.
PSO-2.	Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry
PSO-3.	Solve the problem and also think methodically, independently and draw a logical conclusion
PSO-4.	Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions
PSO-5	Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community
PSO-6	Find out the green route for chemical reaction for sustainable development
PSO-7	To inculcate the scientific temperament in the students and outside the scientific community
PSO-8	Use modern techniques, decent equipments and Chemistry softwares
PSO-9	Be able to integrate knowledge gained in Chemistry to General education courses
PSO-10	Be able to access, scout and use the chemical literature and also able to work as a member of a team.

DEPARTMENT OF MATHEMATICS
PROGRAMME SPECIFIC OUTCOMES

S.No	MATHEMATICS
PSO-1	Think in a critical manner
PSO-2.	Familiarize the students with suitable tools of mathematical analysis to handle issues and problems in mathematics and related sciences
PSO-3.	Acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of mathematics
PSO-4.	Provide students/learners sufficient knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics
PSO-5	Encourage the students to develop a range of generic skills helpful in Employment and social activities

DEPARTMENT OF PHYSICS
PROGRAMME SPECIFIC OUTCOMES

S.No	PHYSICS
PSO-1	Gain the knowledge of Physics through theory and practicals.
PSO-2.	Understand good laboratory practices and safety
PSO-3.	Develop research oriented skills.
PSO-4.	Make aware and handle the sophisticated instruments/equipments

DEPARTMENT OF COMPUTER SCIENCE
PROGRAMME SPECIFIC OUTCOMES

S.No	COMPUTER SCIENCE
PSO-1	On the completion of the B. SC. Computer Science, the students are able to
PSO-2.	Understand the knowledge of operating system in realty
PSO-3.	Study data structure and its principles
PSO-4.	Learn different programming languages as per the requirements software fields
PSO-5.	Study and understand the importance of cyber security
PSO-6.	study the different roles and the features of operating system

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COURSE OUTCOMES OF COMPUTER SCIENCE

Semester I

Group: MPCs Subject: Programming with C

CO1: The focus of the subject is to develop C program.

CO2: Control the Sequence of the program and give logical outputs.

CO3: Implement strings in C program.

CO4: Store different data types in the same memory.

CO5: Mange I/O operations in c program, repeat the sequence of instructions and points for a memory location.

CO6: Understand the basic file handling mechanisms.

Group: B. Com (CA) Subject: Fundamentals of Information Technology

CO1: The focus of the subject is on introducing skills relating to IT basics, computer applications, interactive medias, Internet basics etc.

CO2: Have a basic understanding of personal computers and their operations.

CO3: Understand basic concepts and terminology of Binary Number System and its Conversions.

CO4: Basic understanding of Secondary Storage Devices.

CO5: Have a basic knowledge about software and its types, operating system and its types.

CO6: Understanding the basic concepts of Computer Networks.

Semester II

Group: MPCs Subject: Programming with CPP

CO1: Describe Oops Concepts.

CO2: Use functions and pointers in CPP program.

CO3: Understand tokens, Expressions and control structures.

CO4: Explain arrays and strings and create programs using them.

CO5: Describe the use of constructors and destructors.

CO6: Demonstrate how to control errors with exception handling.

Group: B. Com (CA) Subject: Programming with C & CPP

CO1: The focus of the subject is to develop C program.

CO2: Control the Sequence of the program and give logical outputs.

CO3: Implement functions, strings and Math handling functions in C program.

CO4: Discuss about Structures, unions and pointers.

CO5: Describe basic concepts of Oops Concepts.

Semester III

Group: MPCs Subject: Data Structures using CPP

CO1: Choose appropriate data structures to represent data items in real world problems.

CO2: Analise the time and space complexities of algorithms

CO3: Design programs using a variety of data structures such as stacks, queues, hash tables,

binary trees, search trees, heaps, graphs, and B-trees.

CO4: Analise and implement various kinds of searching and sorting techniques.

CO5: Write the C++ code for a given algorithm.

CO6: Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.

Group: B. Com (CA) Subject: Relational Database Management Systems

CO1: Understand database concepts and structures and query language.

CO2: Understand the E R model and relational model.

CO3: To design and build a simple database system and demonstrate competence with the fundamental tasks

CO4: involved with modelling, designing, and implementing a DBMS.

CO5: Understand Functional Dependency and Decomposition.

CO6: Apply various Normalization techniques.

CO7: Perform PL/SQL programming using concept of Cursor Management, Error Handling, Package and Triggers.

CO8: Execute various advance SQL queries related to Transaction Processing & Locking using concept of Concurrency control.

CO9: Understand query processing and techniques involved in query optimization.

CO10: Understand the principles of storage structure and recovery management

Semester IV

Group: MPCs Subject: Database Management Systems

CO1: Understand database concepts and structures and query language.

CO2: Understand the E R model and relational model.

CO3: To design and build a simple database system and demonstrate competence with the fundamental tasks

CO4: involved with modeling, designing, and implementing a DBMS.

CO5: Understand Functional Dependency and Decomposition.

CO6: Apply various Normalization techniques.

CO7: Perform PL/SQL programming using concept of Cursor Management, Error Handling, Package and Triggers

CO8: Execute various advance SQL queries related to Transaction Processing & Locking using concept of Concurrency control.

CO9: Understand query processing and techniques involved in query optimization.

CO10: Understand the principles of storage structure and recovery management

Group: B. Com (CA) Subject: Web Technologies

CO1: Explain the history of the internet and related internet concepts that are vital in understanding web development.

CO2: Discuss the insights of internet programming and implement complete application over the web.

CO3: Demonstrate the important HTML tags for designing static pages and separate design using cascading style sheets.

CO4: Utilize the concept of JavaScript.

CO5: Use web application software tools like Ajax, PHP, XML etc. and identify the environments currently available in the market to design websites.

Semester V

Group: MPCs Subject: Programming in JAVA

CO1: Read and understand Java-based software code of medium-to-high complexity.

CO2: Use standard and third-party Java's API’s when writing applications.

CO3: Understand the basic principles of creating Java applications with graphical user interface.

CO4: Understand the fundamental concepts of computer science: structure of the computational

process, algorithms and complexity of computation.

CO5: Understand the basic approaches to the design of software applications.

CO6: Apply the above to design, implement, appropriately document and test a Java application of medium complexity, consisting of multiple classes.

Semester VI

Group: MPCs Subject: Web Technologies

CO1: Explain the history of the internet and related internet concepts that are vital in understanding web development.

CO2: Discuss the insights of internet programming and implement complete application over the web.

CO3: Demonstrate the important HTML tags for designing static pages and separate design using cascading style sheets.

CO4: Utilize the concept of JavaScript.

CO5: Use web application software tools like Ajax, PHP, XML etc. and identify the environments currently available in the market to design websites.

Group: B. Com (CA) Subject: Cyber Security

CO1: Explain about Cyber Attacks, Cyber Forensics and related concepts that are vital in understanding Cyber Security.

CO2: Discuss the insights of Cyber Attacks and Cyber Security Policies.

CO3: Demonstrate the important of Securing Websites.

CO4: Discuss briefly about Intrusion Detection and Prevention techniques.

CO5: Demonstrating symmetric and asymmetric cryptography and network security.

CO6: Understand Cyber Laws and Cyber Forensics.

COURSE OUTCOMES OF POLITICAL SCIENCE

POLITICAL THEORY

CO1. To understand the Nature, Scope and Significance of Political Theory

CO2. To introduce theories of Origin of State and concepts - Power, Authority and Sovereign state

C03. To familiarize with the political values – Liberty, Equality, Justice and Political ideologies - liberalism nationalism, multiculturalism

CO4. To analyze the functions of Political Institutions – Legislature, Executive, Judiciary, Political Parties Presurre Groups and Media

WESTERN POLITICAL THOUGHT

CO 1. To introduce the students with the Greek political tradition specially to the ideas of Plato and Aristotle

CO2.To explain the political thought of medieval, early modern political thinkers – Aquinas and Machiavelli

CO 3. To familiarize the students with the Social Contract Theory - Hobbes, Locke and Rousseau

Co4. To understand Utilitarian Thought and Philosophy of Dialectics

INDIAN POLITICAL THOUGHT

CO1. To introduce the State and Society in Ancient, Medieval India with the thought of Manu, Buddha, Kautilya, Basava and Barani

CO2. To familiarize with the Renaissance thought of Ram Mohan Roy, Phule and Reformist thought of Gandhi and Ambedkar

CO3. To understand the socialist thought of MN Roy, Nehru and Lohia

CONSTITUTION AND POLITICS OF INDIA

CO 1. To overview the Indian National Movement, Evolution of Constitution and its Philosophical Foundations

CO2. To familiarize with the Legislative, Executive and Judiciary functions of Union, State Governments

CO3. To understand the Federal Politics and its Recent Trends

CO 4. To understand the Electoral Politics in India and Recent trends in Party System

CO 5. To analyze the issues in Indian Politics

INTERNATIONAL RELATIONS

CO1. To understand the Nature, Evolution and Scope of International Relations

CO2. To familiarize with the concept of Colonialism, De-colonialism, Neo-Colonialism, Cold war and Detente

CO3. To analyze Indian Foreign Policy and its Determinants

CO4. To know India's relations with other countries - USA, China and Pakistan

GLOBAL POLITICS

CO1. To familiarize with the concept of Power, Balance of Power, Soft Power, Security, Collective Security, Unipolarity, Bipolarity and Multipolarity

CO2. To analyze a global threat - Terrorism, Environmental degradation

CO3. To know the functions of World Bank, IMF, UNCTAD, WTO

CO4.To familiarize with Disarmament, Arms Control Treaties - NPT, CTBT, MTCR, WMD'S

BOTANY

Paper-I Microbial diversity, Algae, Fungi, Bryophyta & Pteridophyta.

CO1 to develop interest in the concepts related to bacteria, viruses, algae, fungi, Bryophyta and Pteridophyta

CO2 to learn details about the general characteristics of bacteria and their cell, nutrition

reproduction/ recombination.

CO3 to learn details on general structure, replication of viruses and plant diseases caused by viruses

CO4 Develop critical understanding of plant diseases caused by bacteria, viruses, mycoplasma, actinomycetes and fungi and their remediation methods.

CO5 Develop critical understanding on morphology, anatomy, life cycle and reproduction

of Bryophytes and Pteridophytes.

CO6 Demonstrate the practical methods related to the relevant topics

Paper-II: Gymnosperms, Plant Taxonomy & Ecology

CO1 Develop critical understanding on morphology, anatomy, reproduction and economic

importance of Gymnosperms

CO2 The students develop knowledge on nomenclature, identification, and classification

CO3 students can develop interest in plants identification in local areas

CO4 Students can able to know the Technique of making herbarium and able to make herbarium sheets by their own

CO5 students gain knowledge on basic concepts of plant ecology, different types of ecosystems and their structures

CO6 Understanding the concepts of biotic and abiotic components.

CO7 understanding the concepts of different plant communities and their succession.

Paper-III: Plant Anatomy and Embryology.

CO1 students will learn the fundamental concepts of plant anatomy

CO2 Analyse and recognize the different organs of plant and secondary growth.

CO3 Evaluate the structural organization of flower and the process of pollination, fertilization & Development of embryo.

Paper-IV: Cell Biology & Genetics, Plant physiology

CO1 Understand the importance, evolution and diversity of cells.

CO2 Able to describe the organization, structure and functions of cell wall,plasma membrane and different types of cell organelles

CO3 Understand the sequential events that occur during mitosis and meiosis.

CO4 Understand Water relation of plants with respect to various physiological processes

like diffusion, osmosis, imbibition and transpiration etc

CO5 Explain chemical properties and deficiency symptoms of micro and macro nutrients in plants

CO6 Understand the mechanism of various metabolic processes in plants like photosynthesis and respiration

CO7 Explain the significance of Nitrogen metabolism

CO8 Acquire basic knowledge about growth hormones in plant development

DSE-IA: Biodiversity & Conservation

CO1 Develop understanding of the concept and scope of Biodiversity and types of biodiversity.

CO2 understands the concept of agro biodiversity and its importance in conserving wild and cultivated species.

CO3 Utilize various strategies for the Conservation of biodiversity.

CO5 students can understand the importance of forestry and the role of plants in relation to human welfare.

DSE-IIB: Tissue culture & Biotechnology

CO1 students can be able to understand the procedure of tissue culture, micropropagation, and practical implementation

CO2 understands the procedures of different organ cultures to produce a number of plants.

CO3 Examine gene cloning and evaluate different methods of gene transfer.

CO4 understands the procedure of r-DNA technology and related research methodologies.

CHEMISTRY

SEMESTER I, PAPER I, 4 Credits

The students will learn the following

CO 1: Inculcate industrial applications of carbides, silicones, acidity and reactivity of boron Compounds.

CO 2: Overview of periodic table and P block elements.

CO 3: Detail understanding of various compounds of elements of p-block and theoretical knowledge to perform semi micro analysis i.e. Identification of inorganic salts

CO 4: Understand the concept of nature of chemical bond

CO 5: Understand alkanes, alkenes, alkynes, understand the aromaticity of organic Compounds

CO 6: Understand the concept of stereochemistry. Understand different typesof reaction Mechanism

SEMESTER II, PAPER II, 4 Credits

The students will learn the following

CO 1: Understand reactivity and structures of oxides, oxy acids, structures of inter halogen compound zero group elements, d –block elements

CO 2: Understand the structure and chemical bonding and behavior in aryl, alkylhalides, alcohols, phenols and carbonyl compounds

CO 3: Understand the theories and laws of electrochemistry, electrolytic cells,

electrochemical cells applications batteries industry. Conductometric titrations,emf etc

CO 4: Volumetric analysis, and gravimetric analysis. Estimation of carbonate, bicarbonate, copper etc

SEMESTER III, PAPER III, 4 Credits

The students will learn the following

CO 1: Understand the chemistry of f-block elements, complex compounds, metal carbonyls and Organo metallic compounds and their applications.

CO 2: Understand the chemistry of carboxylic acids and their derivatives, active methylene compounds and nitro compounds. Industrial and research importance, Importance of carbanions I

CO 3: Understand the thermodynamics of chemical reactions, phase rule.

CO 4: Laboratory synthesis of some organic compounds.

SEMESTER IV, PAPER IV, 4 Credits

The students will learn the following

CO 1: Student able to understand the reaction mechanism of inorganic complexes, inert and labile nature, bio inorganic chemistry Student able to understand the reaction mechanism of inorganic Complexes, inert and labile nature, bio inorganic chemistry i.e. importance of micro and macro nutrients in human.

CO 2: Student able to understand the chemistry and reactions of carbohydrates, amino acids and Hetero cyclic compounds. Their importance in medical and biological fields, Importance of carbanions –II

CO 3: Student able to understand the chemistry and reactions of carbohydrates, amino acids and Hetero cyclic compounds. Their importance in medical and biological fields, Importance of carbanions –II

CO4: Functional group analysis

SEMESTER V, PAPER V, 4 Credits

The students will learn the following

CO 1: Students are able to determine the functional groups present in moleculestructure

by applying infrared

CO 2: Students can explain the maximum absorption wavelength by of molecules using UV Spectroscopy and can find out the chemical environment of molecule from chemical shift values of NMR Spectroscopy

CO 3: Students are able to separate the compounds from the given mixture bysolvent extraction method and separation techniques.

CO 4: Students determine the concentration of KMno4 Solution by usingColorimetry

COURSE OUTCOMES OF DEPARTMENT OF COMMERCE

Semester-I

1. FINANCIAL ACCOUNTING-I

CO1: Acquire conceptual knowledge of basis of Accounting CO2: Know and understand basic Accounting Concepts

CO3: Understand Accounting & Preparation of final Accounts of sole trader CO4: Apply process in Business transactions

CO5: Respond to Financial Accounting changing student learning style through a Varity of learning models and multi media

CO6: Analyse financial statements of sole trading

2. BUSINESS ORGANISATION & MANAGEMENT

CO1: Learn the basic forms of ownership organization such as sole trade, partnership, Joint Hindu Family & Joint Stock Company & mutual funds CO2: Understand the nature and purpose of different types organization CO3: Understand Basic Concept Organizational Structure

CO4: Apply Different ways in which Organizations may be structure

CO5: Describe the main departments or functions of Business Organization CO6: Explain the advantages & Disadvantages of Centralized & Decentralized Organization

CO7: Learn the concept of planning, Organizing, Delegation and Decentralization, Co-Ordination & Control

3. FOREIGN TRADE

CO1: Learn To gain knowledge of Indians foreign trade procedure policies and international institutions

CO2: Know comparative advantage and it formal expression and interpretation with in different theoretical models

CO3: Understand the major recent development in the world trading system CO4: Apply BE able to apply partial equilibrium and general equilibrium models in analysing the economic effects

CO5: Respond Develop Communication Skills through the presentation of work interactions during tutorial session and appropriate use of the discussion

CO6: Analyse the major models of international trade and be able to distinguish b/n them in terms of their assumptions of economic implications

Semester-II

1. FINANCIAL ACCOUNTING-II

CO1: Learn the concepts of bills of exchange consignment and joint venture accounts from incomplete records and non-profit organizations

CO2: Know the different type of Accounts belongs to various business CO3: Understand Accounting & Preparation of various business forms

CO4: Apply the processing of accounting transaction of various business forms CO5: Respond Learning styles can change through different learning models CO6: Analyse Student can analysis the business forms Accounting statements

2. BUSINESS LAWS

CO1: Learn acts relating to business, i.e. contract act, sale of Goods act, consumer protection company law etc.

CO2: Know contract legality, consideration, contract of sale, discharge of a contract consumer rights

CO3: Understand acts and law of business, company related law, intellectual property, Management & winging up of companies

CO4: Apply cases of contract act and able to create a written contract filing a case on consumer protection

CO5: Respond knows the practical problems relating to the sale of Goods Act. Cases of companies act

CO6: Analyse students are expected to know the model for at a complaint & legal environmental

3. BANKING AND FINANCIAL SERVICES

CO1: Understanding different types of bank accounts and the process of opening a bank account.

CO2: Ability to assess the significance of KYC norms.

CO3: Knowledge regarding different types of banks in India.

CO4: Ability to understand the provisions required to be created for different types of nonperforming assets.

CO5: Familiarization with the different types of banker-customer relationship. CO6: Complete knowledge of Financial System of India.

CO7: Clarity about the basic concepts of money, money supply and money creation.

CO8: Understanding of technical terms relating to Financial System like Derivatives, Stock etc.

CO9: Development of basic understanding relating to Life Insurance and General Insurance.

Semester-III

SEC-1 Principles of Insurance

CO 1: To provide a basic understating of the insurance mechanism.

CO 2: Identify the relationship between insurers and their customers and the importance of insurance contracts.

SEC-2 Practice of Life Insurance

CO 1: To provide an insight into the different types of Life Insurance Plans

CO 2: Enable the students to understand the importance of nomination and assignments.

1. ADVANCED ACCOUNTING

To acquire accounting knowledge of partner firms and joint stock companies

CO1: Partnership accounts-I CO2. Partnership Accounts-II

CO3. Issue of shares, Debentures, Underwriting and Bonus shares CO4. Company final accounts and profit prior to incorporation CO5. Valuation of Goodwill and Shares

2. BUSINESS STATISTICS-I

CO1: Student will able to apply knowledge to solve simple tasks using computer (MS Excel)

CO2: Student will able to independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes)

CO3: Student will able to interpret the meaning of the calculated statistical indicators

CO4: Student will able to choose a statistical method for solving practical problems

CO5: Explain the primary concepts of statistics, data collection, sampling and tabulation

CO6: Understand the concepts of measures of central tendency and solve problems

CO7: Understand the various measures of dispersion and solve related problems CO8: Develop the ability to solve problems in correlation

3. FINANCIAL INSTITUTIONS AND MARKETS

On successful completion of the course students will be able to:

CO1: Provide an insight to students into the functions and role of varied and multiple constituents of the Indian financial system.

CO2: Lay out a strong and firm theoretical foundation of studies in the field of banking, capital market and financial services.

CO3: Enable students to understand the latest developments in the rapidly changing scenario of the Indian financial System.

CO4: Help the students to understand the role of financial system regulators and its major players.

CO5: Comprehend and grasp the different mechanisms and channels for raising finance which enables a modern economy to operate.

Semester-IV SEC-3: Practice of General Insurance

CO1: Students understand general insurance and its origin CO2: Know about national and international insurance markets CO3: Get awareness on Insurance policy documents and forms **SEC-4: Regulation of Insurance Business**

CO1: Students know about history of life and non-life insurance legislation CO2: Students understand IRDA and its functions including licencing functions CO3: Students understand assignment and transfer of insurance policies

1. BUSINESS STATISTICS-II

On the completion of the course, Students will be able to

CO1: Student will able to explain probability theory and probability distributions in relation to general statistical analysis.

CO2: Student will able to Understand and appreciate the need to solve a variety of business-related problems using a systematic approach involving accepted statistical techniques.

CO3: Develop the ability to solve problems in regression analysis

CO4: Calculate the index numbers and understand the concept of time series and their application

2. INCOME TAX

CO1: Learn the concept of agriculture income, Income from salaries income from house property, profits and gains of Business or profession

CO2: Know a broad understanding of Tax

CO3: Understand summarize the tax environment and the federal tax compliance process

CO4: Apply principles of tax law to complex legal problems, and critique the tax

CO5: Respond measure faxable income

CO6: Analyse interpret tax aspects of individual investment planning and personal activities

3. CORPORATE ACCOUNTING

On the completion of the course, Students will be able to

CO1: Calculate purchase consideration in case of Amalgamation, Absorption and reconstruction.

CO2: Know about the companies all accounts. CO3: Get the Knowledge of banking system.

CO4: Learn about working format of companies.

CO5: Find out how can liquidation of company

Semester-V

1. BUSINESS ECONOMICS

CO1: Learn Business Economics concepts & principles which are useful in understanding the general economic environment

CO2: Know the concept of marginal cost, opportunity cost for analysis & decision making in the business environment

CO3: Understand the local and global business environment

CO4: Apply effective written and Oral Communication Skills to business Situations

CO5: Respond and acquire critical thinking skills in business situations

CO6: Analyse and apply and Ethical understanding and perspective to business situation

2. COST ACCOUNTING

On the completion of the course, Students will be able to

CO1: Understand the importance of costing in companies CO2: Gain knowledge about losses in process costing

CO3: Define the various components of total cost of a product i.e. direct & indirect cost and fixed & flexible cost.

CO4: Determine various levels of material i.e. reorder level, minimum level, maximum level & EOQ for managing working capital.

CO5: Use methods of time-keeping & time-booking and manage idle & overtime.

CO6: Define the features of overhead or indirect cost of production and basis of allocation and apportionment.

CO7: Use cost-sheet to compute unit cost of product.

CO8: Determine basis for computing tender price of a product.

3. COMPUTERIZED ACCOUNTING

On the completion of the course, Students will be able to

CO1: Gain the practical knowledge, implementation and operation of business with computer applications

CO2: Work with simple formula for computation of Statement of Accounts.

CO3: Achieve hands-on experience with productivity/application software to enhance business activities

CO4: Accomplish projects utilizing

CO5: Business theories, teamwork, Internet resources and computer technology.

4. AUDITING:

CO1: Learn concept of Audit process including the professional standards applicable to the financial statement

CO2: Know application of Auditing procedures to select transaction cycles CO3: Understand sampling methodologies commonly used within the audit profession

CO4: Apply Ethical & legal responsibilities of financial statement auditors the public accounting profession

CO5: Respond, develop & demonstrate problem solving and critical thinking skills essential to solve unstructured auditing problems

CO6: Analyse and assess manual and information systems

5. E- COMMERCE

On the completion of the course, Students will be able to

CO1: Logically observed and experienced the main activities of E-Commerce. CO2: Learned and evaluated about the various components of E-Commerce.

CO3: Conceptually learned the concept of online shopping and models of Electronic market.

CO4: Thoroughly learned the concepts of instant messaging and Electronic Data Exchange.

Semester-VI

1. RESEARCH METHODOLOGY AND PROJECT REPORTING

At the end of this course, the students should be able to:

CO1: understand some basic concepts of research and its methodologies CO2: identify appropriate research topics

CO3: select and define appropriate research problem and parameters CO4: prepare a project proposal (to undertake a project)

CO5: organize and conduct research (advanced project) in a more appropriate manner

CO6: write a research report and thesis

2. COST CONTROL AND MANAGEMENT ACCOUNTING

On the completion of the course, Students will be able to

CO1: Understand the objectives and functions of management accounting CO2: Practice marginal costing techniques and managerial decision making CO3: Imparted knowledge on capital budgeting and decision-making techniques.

CO4: Provide knowledge about the preparation of various kings of budgets. CO5: Evaluate the financial position by using ratios

CO6: Understand cash flow and funds flow analysis

3. THEORY AND PRACTICE OF GST

CO1: connect with the genesis of goods and services tax (GST), decipher the constitutional amendment carried out to install GST in India and comprehend the composition and working of GST council.

CO2: understand the meaning of supply under GST law, differentiate between intra-state and inter-state supply, comprehend rules related to the place of supply and compute the value of supply.

CO3: comprehend the utilization of input tax credit, and the reverse charge mechanism of paying GST and to know the procedure for claiming refund under GST law.

CO4: understand the provisions for registration under GST along with special provisions such as those related to anti-profiteering; avoidance of dual control; e-way bills and penalties.

CO5: know the basic concepts of Customs Act and to compute the assessable value for charging customs duty.

COURSE OUTCOMES OF ECONOMICS

CORE 1: MICRO ECONOMICS

COI: This course is designed to provide a basic understanding of micro economic concepts like methods of cardinal and ordinal utility analysis, consumer behaviour through indifference curves analysis.

CO2: This course intended to familiarize with short - run and long run production functions and theories, properties of iso-product curves, properties of cobb - douglass production functions.

CO3: To understand the cost concepts like accounting cost, Explicit cost, Real cost, Opportunity cost, Marginal cost, Average cost, short run and long run cost like fixed cost, variable cost and total cost.

CO4: This course is design to provide basic information regarding market structure. Students to understand the basic characteristics of different markets and know about the price determination, Equilibrium in markets.

CO5: This unit to provide knowledge about characteristics and objectives of business firm.

CORE 2: MACRO ECONOMICS

CO1: This course is design to make the students aware of the theoretical aspects of macro-economic concepts like National income concepts , national income estimating methods ,circular flow of income.

CO2: To understand the Employment theories in economics. To create awareness regarding consumption function, Multiplier and Accelerator.

CO3: This course also aims to enable the students to understand concepts of Investment, classical and neo classical theories of interest.

CO4 : This course is understanding functions and classification of money and to creat knowledge about Theories of money.

CO5: This course is design to make the students aware of the types and causes of inflation . Business cycles concept , causes ,and phases of trade cycles.

CORE 3: STATISTICS FOR ECONOMICS

CO1: This course will help the students to understand the issues regarding types of data , methods of data collection, processing organizing, graphical and diagrammatical presentation of data and the involved there in.

CO2 : This course enable the students to describe the concepts of Measures of central tendency, calculate and apply of Mean ,Median ,and Mode.

CO3 : To understand the correlation meaning and types like Karlpearson's correlation co-efficient and Spearmen rank correlation.

CO4: This course is design to understand the meaning and uses - Aspects and difficulties in the construction of index numbers, types and methods of index numbers.

CO5: This course enables the students to understand the meaning and uses of time series analysis, components of time series analysis, and methods of measurements of secular Trends

CORE 4: INDIAN ECONOMY

CO1: This course is to design to understand the Indian economy at the time of independence.

To provide knowledge about Natural resources, Demographic features of India.

CO2: This course is to design to understand the Importance of Agriculture sector in India. Create awareness regarding green revolution, Land reforms, Agriculture marketing and Food security in India.

CO3: This course is to understand the Importance of Industrial sector in India. To create awareness about Industrial policies of 1948,1956,1991 and Formal and informal sectors in India.

CO4: This course is to understand failures and demise of planning commission, Objectives and structure of NITI Aayog and to create awareness about difference between NITI Ayog and planning commission in India.

CO5: This course is to understand Trends and role of service sector in India. To give awareness regarding Economic reforms -Like- Liberalization, Privatization, Globalization.

CORE 5: PUBLIC ECONOMICS

CO1; The course provides knowledge about multiple theories of public household - public and private goods.

CO2; The course provides knowledge about theories of public expenditure Wagner's law of increasing state activities peacock Wiseman hypothesis and cost benefit analysis

CO3; The course provides knowledge about approaches to taxation benefit approach, ability to pay approach and neutrality approach elasticity and buoyancy of taxation and VAT.

CO4; The course provides knowledge about objectives of a fiscal policies in a developing country, federal financial structure, income tax and corporate tax and GST

CO5; The course provides knowledge about classification of budget, concepts of budget deficit and their implication, fiscal sector reforms in India

CORE 6: DEVELOPMENT ECONOMICS

CO1; The course provides knowledge about growth and development, measurements of economic development like PCI, PQLI, HDI, GEM.

CO2; The course provides knowledge about factors effecting economic development

characteristics of developing countries. Theories demographic transition.

CO3; The course provides knowledge about the growth theories like balanced and unbalanced growth theories, low level equilibrium trap theory, critical minimum theory

CO4; The course provides knowledge about investment criteria. Capital- labour intensive techniques, role of labour orientation methods in the development of third world countries.

CO5; The course provides knowledge about financing economic development external resources -FDI, foreign aid vs trade. MNC activity in developing countries. Borrowing – domestic and external; burden of borrowing -IMF and world bank.

ENGLISH

Course Outcomes

CO1: Strengthening their grammar and vocabulary

CO2: Improving their reading and writing skills

CO3: Enhancing their listening their speaking skills

CO4: Imparting to them needful life skills and human values

CO5: Encouraging them to think creatively and critically

CO6: Exposing to them a variety of content-rich texts

CO7: Expanding their emotional intelligence

HISTORY

COURSE OUTCOMES:

CO1: Identify geographical features of India.

CO2: Describe The Pre- History and Proto –History.

CO3: Classification of Buddhism and Jainism.

CO4: Acquire knowledge about early India.

CO5: Identify early Indian map.

COURSE: DSC-201 HISTORY OF INDIA (C 700-1526 CE)

CO1: acquire knowledge about Rajputs, Pallavas, Cholas and Rastrakutas.

CO2: Classification of Bhakthi Movement.

CO3: Understanding of Delhi Sultanate.

CO4: Describe political and social and economic conditions of Kakathiyas.

CO5: Analyze the social conditions, religious consciousness in Vijaynagara kingdom.

CO6: Classification of political, cultural activities of south india.

COURSE: HISTORY OF INDIA (1526-1857 CE)

CO1: Snalyse the Mughal rule of Administration, Art and Architecture.

CO2: Identify cultural synthesis.

CO3: Analyze the Medieval Indian History.

CO4: Maps- Important Centres in Mughal Empire under Akbar and Aurangazeb- Analyse the Indian Economy

COURSE: HISTORY OF INDIA (1858- 1964 CE)

CO1: Evaluate Consolidation of English Power in India.

CO2: Analyze Socio Religious Consciousness in India.

CO3: Comparison of National Movement- Pre -Ghandian Era and Post-Ghandian Era.

CO4: Identify Modern India Maps.

CO5: Indentify the Major Sites of Religions Movement.

CO6: Classifications of Emergence of Communal Politics in India.

COURSE: WORLD HISTORY (1453-1815 CE)

CO1: Describe Rise of Modern World.

CO2: Development of beginning of modern age in Europe.

CO3: Classify the Growth of Capitalism.

CO4: Classifications of Reformation Movement.

CO5: Identify World Maps- Ocean Explorations, Europe in 1815 Important Stages World Wars and important Centers of International Trade.

COURSE: HISTORY OF TELANGANA (FROM EARLIST TIMES TO 1724 CE)

CO1: Identify the Geographical Features of Telangana.

CO2: Analyze Early Human Settlements Paleolithic, Neolithic.

CO3: Identify Cultural Synthesis.

CO4: Identify Telangana Maps- Megalithic, Culture and Tribal Culture.

CO5: Identify The Telangana Festivals and Jatharas.

CO6: Classify Socio –Religious Movement.

COURSE: WORLD HISTORY (1815-1950 CE)

CO1: Repression of Liberalism in Central Europe.

CO2: Unification of Germany.

CO3: Unification of Italy.

CO4: Identify World Wars and Results.

CO5: Identify Ghandi National Movement.

CO6: Unification of Chinese Revolutions.

COURSE: HISTORY OF TELANGANA (1724-2014 CE)

CO1: Identify Political Experience of Telangana.

CO2: Classify Tribal Revolt.

CO3: Classify Telangana Movements.

CO4: Identify Formation of Telangana State.

COURSE OUTCOMES OF ZOOLOGY

Animal Diversity – Invertebrates

CO 1: Describe general taxonomic rules on animal classification

CO 2: Classify Protista up to phylum using examples from parasitic adaptation

CO 3: Classify Phylum Porifera to Echinodermata with taxonomic keys

CO 4: Describe Phylum Nematoda and give examples of pathogenic Nematodes

Animal Diversity – Vertebrates

CO 1: Imparts conceptual knowledge of vertebrates, their adaptations and associations inrelation to their environment

CO 2: Classify phylum Protochordates to Mammalia

CO 3: Complex Vertebrate interactions

Physiology and Animal Behavior:

CO 1: Seeks to understand the mechanisms that work to keep the human body alive and functioning

CO 2: Physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of humans, their organs, and the cells of which they are composed

CO 3: Interactions and interdependence of physiological and biochemical processes

Cell Biology, Genetics

CO 1: Structural and functional aspects of basic unit of life i.e cell concepts

CO 2: Mendelian and non mendielian inheritance

CO 3: Concept behind genetic disorder, gene mutations- various causes associated withinborn errors of metabolism

CO 4: Understand Animal behaviour and response of animals to different instincts

Molecular Biology and Developmental Biology

CO 1: Knowledge about genetics, developmental biology andorganogenesis

CO 2: Application of DNA technology and molecular biology for research

CO 3: Gains knowledge about gametogenesis, cleavage mechanisms, gastrulation androle of hormones in metamorphosis and regeneration

CO 4: Provides students insight into maintaining healthy relationships with their opposite gender and allows them to make right choice about their life partner thus preventing congenital/ consensual diseases.

Immunology:

CO 1: Imparts in depth knowledge of tissues, cells and molecules involved in host defence mechanisms

CO 2: Understanding of types of immunity

CO 3: Interactions of antigens, antibodies, complements and other immune components

CO 4: Understanding of immune mechanisms in disease control, vaccination, processof immune interactions

Animal biotechnology:

CO 1: Imparts the Knowledge to culture animal cells inartificial media.

CO 2: Knowledge of animal cells in culture, growth of celllines

CO 3: Use in recombinant DNA technology, genetic manipulations and in a variety of industrial processes.

Ecology, Zoogeography and Evolution:

CO 1: Distribution of fauna in different realms interaction

CO 2: Interaction of biota abiota

CO 3: Various kinds of Animal adaptations

CO 4: Imparts knowledge regarding the various theories of evolution, evolutionary processsuch as variation, speciation, natural selection, origin of primates and man

CO 5: Understanding of origin and salient features of Ostracoderms to Actinopterygii, adaptive radiation of Amphibians, Reptiles, birds and Mammals

CO 6: Gains knowledge of functional anatomy of vertebrates from fishes to mammals

CO 7: Understanding of evolutionary significance of internal fertilization, neoteny and paedogenesis

CO 8: Identifies the significance of amniotic egg its structure and evolutionary significanceof skeletal system

Biodiversity and Conservation

CO 1: Biodiversity and conservation explore natural landscapes, species and ecosystems and acquires theories and practical methods in preserving environments and organisms.

CO 2: Biodiversity refers not only to endangered species but also to every organism,including microbes and fungi.

CO 3: Biodiversity and Conservation increase awareness and understanding of how humanlife depends on preserving animal species and natural ecosystems.

COURSE OUTCOMES OF PUBLIC ADMINISTRATION

SEM-I B.A I YEAR: INTRODUCTION TO PUBLIC ADMINISTRATION

BA I Year Course-1: Introduction to Public Administration

CO 1: To understand the nature and scope of Public Administration

CO 2: To appreciate the methodological pluralism and synthesizing nature of knowledge in Public Administration;

CO 3: To comprehend the changing paradigms of Public Administration;

CO 4: To acquaint with the theories, approaches, concepts and principles of Public Administration;

CO 5: To understand the administrative theories and concepts to make senseof administrative practices.

CO 6: To understand public administration theory and concepts

CO 7: To appreciate the nature, scope and changing paradigms of Public Administration.

CO 8: To understand the synthesizing nature of knowledge of public administrationfrom public Perspective.

CO 9: Grasp the administrative theories, concepts and principles to make senseof administrative Practices with merging trends.

CO 10: Role of Public Services in the Emergence and Development of New State of Telangana.

DEPARTMENT OF TELUGU Course outcomes:

CO 1: Create awareness on Telugu language and literature like kavyas, Natakas, vyakaranam etc.

CO 2: Develops reading ability to solve verbal and Non-verbal communication of the students.

CO 3: To bring language skills among the students.

CO 4: Enlightens the students about human values and affects their attitudes.

CO 5: Develops research bent of mind.

Department of Physics

CO 1: Students after completion of this course have deep understanding of Newton's Laws to solve the problems of simple configurations.

CO 2: Understand the foundations of potential, fields, central forces and Kepler's Laws.

CO 3: Students will earn gradient of scalar field, divergence& curl of vector field, vector integrations and their conversions.

CO 4: Students get good knowledge about laws of motion and variable mass system which mostly appears in physical world like motion of rocket.

CO 5: Students study the rigid body dynamics and get comparative idea between linear & rotational motions. Students understand the working principle of Gyroscope which serves as 3D compass and get the idea of precision of equinoxes.

CO 6: Students study the central forces which helps to understand the motion of planets and satellites.

CO 7: Understand the negative result of Michelson Morley experiment, Galilean and Lorentz transformation. Study relativistic effects such as length contraction and time dilation and understand twins' paradox.