SGK GOVT., DEGREE COLLEGE VINUKONDA

(NAAC Accredited at 'B' Level)

(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY, GUNTUR)

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PRINCIPAL

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PROGRAM OUTCOMES

On successful completion of Under Graduate programme, students will be able to:

PO 1 : Acquire comprehensive Knowledge and effectively apply such knowledge and skills to address various issues.

PO 2 : Acquire self learning skills and adopt them for emerging demands at work place and life.

PO 3 : Access ICT tools effectively and have a knowledge of software applications to analyze data.

PO 4: Develop scientific thinking process and use the technology for communication and entertainment for the benefit of mankind.

PO 5: Predict problems, frame hypothesis, investigate and interpret the empirical data.

PO 6: Learn group dynamics and deals individually as well as with teams and groups to perform effectively in diverse teams /groups.

PO 7 : Develop Efficient Communication & Life Skills and present significant information clearly and concisely to interested groups.

PO 8 : Understand Environmental Sustainability, propagate and follow environment friendly practices.

PO 9 : Develop Societal conciseness, involve voluntarily in societal development activities and address societal issues at regional, national, global level.

PO10 : Identify the goals, objectives and components of a project and decide the appropriate time of completion.

SGK Government Degree College
Vinukonda, Guntur Dist

DEPARTMENT OF PHYSICS

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	PHY1SK	Mechanics, waves & Oscillations	1	Understand Newton's laws of motion and motion of variable mass system and its application to rocket motion and the concepts of impact parameter, scattering cross section.
			2	Apply the rotational kinematic relations, the principle and working of gyroscope and it applications and the processional motion of a freely rotating symmetric top.
			3	Comprehend the general 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.
			4	Understand postulates of Special theory of relativity and its consequences such as length contraction, time dilation, relativistic mass and mass-energy equivalence.
			5	Examine phenomena of simple harmonic motion and the distinction between undamped, damped and forced oscillations and the concepts of resonance and quality factor with reference to damped harmonic oscillator.
			6	Appreciate the formulation of the problem of coupled oscillations and solve them to obtain normal modes of oscillation and their frequencies in simple mechanical systems.
			7	Figure out the formation of harmonics and overtones in a stretched string and acquire the knowledge on Ultrasonic

				waves, their production and detection and their applications in different fields
2	PHY 2SK	WAVE OPTICS	1	Understand the phenomenon of interference of light and its formation in (i) Lloyd's single mirror due to division of wave front and (ii) Thin films, Newton's rings and Michelson interferometer due to division of amplitude.
			2	Distinguish between Fresnel's diffraction and Fraunhoffer diffraction and observe the diffraction patterns in the case of single slit and the diffraction grating.
			3	Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.
			4	Explain the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity..
			5	Comprehend the basic principle of laser, the working of He-Ne laser and Ruby lasers and their applications in different fields.
			6	Explain about the different aberrations in lenses and discuss the methods of minimizing them.
			7	Understand the basic principles of fibre optic communication and explore the field of Holography and Nonlinear optics and their applications.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
3	PHY 3SK	**HEAT AND THERMODYNAMICS**	1	Understand the basic aspects of kinetic theory of gases, Maxwell-Boltzmann distribution law, equipartition of energies, mean free path of molecular collisions and the transport phenomenon in ideal gases
			2	Gain knowledge on the basic concepts of thermodynamics, the first and the second law of thermodynamics, the basic principles of refrigeration, the concept of entropy, the thermodynamic potentials and their physical interpretations.
			3	Understand the working of Carnot's ideal heat engine, Carnot cycle and its efficiency
			4	Develop critical understanding of concept of Thermodynamic potentials, the formulation of Maxwell's equations and its applications.
			5	Differentiate between principles and methods to produce low temperature and liquefy air and also understand the practical applications of substances at low temperatures.
			6	Examine the nature of black body radiations and the basic theories.

4	PHY 4SK	**ELECTRICITY, MAGNETISM AND ELECTRONICS**	1	Understand the Gauss law and its application to obtain electric field in different cases and formulate the relationship between electric displacement vector, electric polarization, Susceptibility, Permittivity and Dielectric constant.
			2	Distinguish between the magnetic effect of electric current and electromagnetic induction and apply the related laws in appropriate circumstances.
			3	Understand Biot and Savart's law and Ampere's circuital law to describe and explain the generation of magnetic fields by electrical currents.
			4	Develop an understanding on the unification of electric and magnetic fields and Maxwell's equations governing electromagnetic waves.
			5	Phenomenon of resonance in LCR AC-circuits, sharpness of resonance, Q -factor, Power factor and the comparative study of series and parallel resonant circuits.
			6	Describe the operation of p-n junction diodes, zener diodes, light emitting diodes and transistors

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
5	PHY 5SK	**MODERN PHYSICS**	1	Develop an understanding on the concepts of Atomic and Modern Physics, basic elementary quantum mechanics and nuclear physics.
			2	Develop critical understanding of concept of Matter waves and Uncertainty principle.
			3	Get familiarized with the principles of quantum mechanics and the formulation of Schrodinger wave equation and its applications.
			4	Examine the basic properties of nuclei, characteristics of Nuclear forces, salient features of Nuclear models and different nuclear radiation detectors.
			5	Classify Elementary particles based on their mass, charge, spin, half life and interaction.
			6	Get familiarized with the nano materials, their unique properties and applications.

SGK Government Degree College
Vinukonda, Guntur Dist

DEPARTMENT OF HISTORY

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	HIS 1SK	ANCIENT INDIAN HISTORY AND CULTURE(from Indus Valley civilization to 13th cen A.D)	1	Identify and define various kinds of sources and understand how history books are shaped
			2	Compare and contrast various stages of progress from IVC to Vedic age and analyze the Jain, Buddhist and Vedic faiths
			3	Increase the awareness and appreciation of transition from territorial States toEmergence of Empires
			4	Analyze the emergence of the Mauryan and Gupta empires during the classical age‖ in India
			5	Evaluate the key facets of ancient society, polity and culture in South India - the feudalism, and the rise of technology and commerce
			6	Critically examine the nature of monarchic rule and develop an comprehensive understanding of cultural evolution during ancient period
2	HIS 2SK	MEDIEVAL INDIAN HISTORY & CULTURE (1206 A.D to 1764 A.D)	1	Understand the socio, economic and cultural conditions of medieval India
			2	Describe the advent of Islam in India and study the traces of political and cultural expansion of Turks & Afghans
			3	Explain the Administration and art and architecture of Vijayanagar Rulers, Mughals and also analyse the rise of the Marathas and the contribution of Shivaji
			4	Evaluate the establishment of the British rule in India and understand the dangerous consequences disunity at all levels
			5	Analyze the emergence of composite culture in Indian
			6	Visualize where places are in relation to one another through map pointing

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
3	HIS 3SK	MODERN INDIAN HISTORY & CULTURE (1764-1947 A. D)	1	Unearth the true nature of the British rule and its disastrous impact on Indian economy and society
			2	Gauge the disillusionment of people against the Company's rule even during the early 19th century
			3	Assess the causes and effects of Reformation movements and also inspire the public to overthrow inequalities of the present day society
			4	Rise above petty parochial issues after understanding the sacrificial saga of freedom Struggle
			5	Evaluate the undercurrent of communal politics that led to India's partition and identify the enemies of India's integrity and sovereignty
			6	Visualize where places are in relation to one another through map pointing
4	HIS 4SK	HISTORY & CULTURE OF ANDHRA (FROM 1512 TO 1956 AD)	1	Interpret social and political and cultural transformation from medieval to modern Andhra
			2	Relate key historical developments during medieval period occurring in coastal Andhra and Telangana regions and analyze socio - political andeconomic changes under Qutbshahi rulers
			3	Outline the issues related to caste, women, widow remarriage, child marriage, social reforms and the laws and policies of Colonial administration towards these issues
			4	Take pride in the non-violence struggle for Indian Independence and relate the importance of peace in everyday life
			5	Apply the knowledge of the regional history to understand the regional, linguistic and other cultural aspirations of the present day society
			6	Visualize where places are in relation to one another through map pointing

5	HIS 5SK	HISTORY OF MODERN WORLD (From 15th Cent. AD to 1945 AD	1	Demonstrate advanced factual knowledge of world histories, politics, and cultures
			2	Assess and appraise the developments in art, literature, and society during the Renaissance and utilize content knowledge of the Reformation and Counter Reformation to make predictions about the evolution of Christianity in Europe and Abroad
			3	Evaluate the causes for the Glorious Revolution and American Revolution and identify the background for the evolution of human rights movement
			4	Understand the main events of the French Revolution and its significance in the shift in European culture from Enlightenment to Romanticism
			5	Think how Russia's traditional monarchy was replaced with the world's first Communist state
			6	Know how the world wars affected people all over the world and the destruction they caused
			7	Develop the intellectual curiosity and habits of thought that will lead to life-long learning and continued engagement with European history, literature, culture, languages, and current affairs and acquire advanced international and intercultural competency through coursework in international studies
			8	Visualize where places are in relation to one another through map pointing

SGK Government Degree College

Vinukonda, Guntur Dist

DEPARTMENT OF ECONOMICS

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	ECO 1SK	MICROECONOMIC ANALYSIS	1	The differences between microeconomic analysis and macroeconomic analysis
			2	Various terms and concepts relating to microeconomic analysis with the help of examples of real life
			3	Determination of price and output discriminating different market conditions in short term and long term
			4	Application of the concept of demand elasticity and its relation with Average and Marginal Revenue
			5	Draws critical diagrams and graphs to explain and examine the application of various laws and principles of microeconomic analysis
2	ECO 2SK	MACROECONOMIC ANALYSIS	1	Various concepts, definitions, laws and principles of macroeconomic theory with reference to income, employment, money, banking and finance
			2	The difference between various concepts and components of national income with illustrations and methods of measuring national income
			3	Functions of commercial banks and central bank, creation and control of credit
			4	In order to understand the interrelationship between various components of national income
			5	The theories of macroeconomics with reference to their assumptions, implications and applicability
			6	Consumption and investment functions; concepts of multiplier and accelerator.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
3	ECO 3SK	DEVELOPMENT ECONOMICS	1	Various concepts and definitions and indicators relating to economic growth and Development including recent developments
			2	Distinction between growth and development with examples
			3	Characteristics of developing and developing economies and distinction between the two
			4	Factors contributing to development, Choice of Techniques and a few important models and strategies of growth
			5	Role and importance of various financial and other institutions in the context of India's economic development
			6	Draws critical diagrams and graphs to explain the models and strategies to highlight empirical evidences to support the strategies
4	ECO 4SK	ECONOMIC DEVELOPMENT-INDIA AND ANDHRA PRADESH	1	Leading issues of Indian economic development with reference to potential for growth, obstacles and policy responses
			2	Objectives, outlays and achievements of economic plans and growth strategies
			3	Available Resources, demographic issues, general problems of poverty and unemployment and relevant policies
			4	Sector specific problems, remedial policies and their effectiveness relating to Agriculture and Industrial Sectors of Indian and AP economy and infrastructure issues of AP economy
			5	Indian Tax system, recent changes, issues of public expenditure and public debt, recent finance commissions and devolution of funds
			6	Major issues of economic development of Andhra Pradesh after bifurcation and Central assistance.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
5	ECO 5SK	STATISTICAL METHODS FOR ECONOMICS	1	The definitions, terms and their meaning relating to statistical methods
			2	Various formulae used to measure central tendency, correlation regression and Indices
			3	Importance of statistics and its applications
			4	Different kinds of statistical problems using various principles and formulae relating to central tendency, correlation, regression, time series and indices
			5	To interpret data and suggest solutions to economic problems
			6	Different types of Bar diagrams. Pie Diagram and its uses in economic analysis.

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DEPARTMENT OF POLITICAL SCIENCE

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	POL 1SK	INTRODUCTION TO POLITICAL SCIENCE	1	Recall the previous knowledge about Political Science and understand the nature andscope, traditional and modern approaches of Political Science.
			2	Understand concepts intrinsic to the study of Political Science.
			3	Have solid theoretical understanding of Rights and its theories along with the basic aspects of certain political ideologies.
			4	Apply the knowledge to observe the field level phenomena
2	POL 2SK	BASIC ORGANS OF THE GOVERNMENT	1	Understand the Origin and Evolution of the concept of Constitutionalism andclassification of Constitutions.
			2	Acquaint themselves with different theories of origin of State.
			3	Understand and analyses organs and forms of Governments along with a deep insight intothe various agents involved in the political process.
			4	Apply the knowledge to analyse and evaluate the existing systems

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DEPARTMENT OF POLITICAL SCIENCE

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
3	POL 3SK	INDIAN GOVERNMENT AND POLITICS	1	Acquire knowledge about the historical background of Constitutional development in India, appreciate philosophical foundations and salient features of the Indian Constitution
			2	Analyze the relationship between State and individual in terms of Fundamental Rights and Directive Principles of State Policy.
			3	Understand the composition of and functioning of Union Government as well as State Government and finally
			4	Acquaint themselves with the judicial system of the country and its emerging trends such as judicial reforms.
4	POL 4SK1	INDIAN POLITICAL PROCESS	1	Know and understand the federal system of the country and some of the vitalcontemporary emerging issues
			2	Evaluate the electoral system of the country and to identify the areas of electoral reforms.
			3	Know the constitutional base and functioning of local governments with special emphasison 73rd& 74th Constitutional Amendment Acts.
			4	Understand the dynamics of Indian politics, challenges faced and gain a sensitive

				comprehension to the contributing factors.
			5	Apply the knowledge and critically comprehend the functioning of some of the regulatoryand governance institutions
			6	Propose theoretical outline alternate models
4	POL 4SK2	WESTERN POLITICAL THOUGHT	1	Understand the fundamental contours classical, western political philosophy, basicfeatures of medieval political thought and shift from medieval to modern era.
			2	Understand the Social Contract Theory and appreciate its implications on the perceptionof State in terms of its purposes and role.
			3	Acquaint with the Liberal and Marxist philosophy and analyze some trends in WesternPolitical Thought
			4	Critically analyze the evolution of western political thought

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DEPARTMENT OF MATHEMATICS

COURSE OUT COMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	MAT 1 SK	DIFFERENTIAL EQUATIONS	1	Solve linear differential equations
			2	Convertnonexact homogeneous equations to exact differential equationby using integrating factors.
			3	Know the methods of finding solutions ofdifferential equation of the first order but not of the first degree.
			4	Solve higer order linear differential equations, both homogebeous and non ho,ogeneous with constant co efficients
			5	Understand the concept and apply appropriate methods for solving differential equations.
2	MAT 2 SK	THREE DIMENSIONAL ANALYTICAL SOLID GEOMETRY	1	Get the knowledge of planes.
			2	Basic idea of lines,spere and cones.
			3	Understand the properties of planes, lines, sphere and cones
			4	Express the problems geometrically and then to get the solution
3	MAT 3 SK	ABSTRACT ALGEBRA	1	Acquire the basic knowledge and sructure of groups subgroups and cyclic groups.
			2	Get the significance of the notation of a normal subgroups.
			3	Get the behavior of permutation and operationon them.
			4	Study the homomorphisms and isomorphismswith applications.
			5	Understand the ring theory concepts with thehelp of knowledge in group theory and to prove the theorems.
			6	Understand the applications of ring theoryin various fields.

4	MAT 4 SK	REAL ANALYSIS	1	Get clear idea about the real numbers and real valued functions.
			2	Obtain the skills of analyzing the concepts and applying appropriate methods for testing convergence of a sequence/series.
			3	Test the continuity and differentiability and riemann integration of a function.
			4	Know the geometrical interpretation of mean value theorems.
5	MAT 5 SK	LENEAR ALGEBRA	1	Understand the concepts of vector spaces, subspaces, basises, dimension and their properties
			2	Understand the concepts of linear transfrmations and their propertis
			3	Apply cayley, hamilton theorem to problems for finding the inverse of a matrix andhiger powers of matrices without using routine methods.
			4	Learn the properties of inner product spaces and determine orthogonality in inner product spaces.

SGK Government Degree College
Vinukonda, Guntur Dist
DEPARTMENT OF ZOOLOGY
COURSE OUTCOMES

S.NO	Course Code	Course Name	Co Number	COURSE OUTCOMES
1	ZOO1SK	Animal Diversity – Biology of Nonchordates	1	Describe general taxonomic rules on animal classification
			2	Classify Protozoa toCoelenterata with taxonomic keys
			3	Classify Phylum Platy hemninthes to Annelida phylum using examples from parasiticadaptation and vermin composting.
			4	Describe Phylum Arthropoda to Mollusca using examples and importance of insectsand Molluscans
			5	Describe Echinodermata to Hemi chordata with suitable examples and larval stages inrelation to the phylogeny
2	ZOO2SK	Animal Diversity – Biology of Nonchordates	1	Describe general taxonomic rules on animal classification of chordates
			2	Classify Protochordata to Mammalia with taxonomic keys
			3	Understand Mammals with specific structural adaptaions
			4	Understand the significance of dentition and evolutionary significance
			5	Understand the origin and volutionary relationship of different phyla fromProchordata to mammalia.
3	ZOO3SK	Cl Biology, Genetics, Molecular Biology and Evolution	1	To understand the basic unit of the living organisms and to differentiate the organisms by their cell structure.
			2	Describe fine structure and function of plasma membrane and different cell organellesof eukaryotic cell.
			3	To understandthe history of origin of branch of genetics, gain knowledge on heredity, interaction of genes, various types of inheritance patterns existing in animals
			4	Acquiring in-depth knowledge on various of aspects of genetics involved in sexdetermination, human karyotyping and mutations of chromosomes resulting in variousdisorders
			5	Understand the central dogma of molecular biology and flow of genetic information from DNA to proteins.
			6	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 varietiesof animals for the benefit of the society.

4	ZOO4SK	Animal Physiology, Cellular Metabolism andEmbryology	1	Understand the functions of important animal physiological systems including digestion, cardio-respiratory and renal systems.
			2	Understand the muscular system and the neuro-endocrine regulation of animal growth, development and metabolism with a special knowledge of hormonal control of human reproduction.
			3	Describe the structure, classification and chemistry of biomolecules and enzymes responsible for sustenance of life in living organisms
			4	Develop broadunderstanding the basic metabolic activities pertaining to the catabolism and anabolism of various biomolecules
			5	Describe the key events in early embryonic development starting from the formation of gametes upto gastrulation and formation of primary germ layers.
5	ZOO5SK	Immunology and Animal Biotechnology	1	To get knowledge of the organs of Immune system, types of immunity, cells andorgans of immunity.
			2	To describe immunological response as to how it is triggered (antigens) and regulated(antibodies)
			3	Understand the applications of Biotechnology in the fields of industry and agriculture including animal cell/tissue culture, stem cell technology and genetic engineering.
			4	Get familiar with the tools and techniques of animal biotechnology.

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DEPARTMENT OF BOTANY

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	BOT 1SK	**Fundamentals of Microbes and Non-vascular Plants**	1	Explain origin of life on the earth.
			2	Illustrate diversity among the viruses and prokaryotic organisms and can categorize them.
			3	Classify fungi, lichens, algae and bryophytes based on their structure, reproduction andlife cycles.
			4	Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi.
			5	Recall and explain the evolutionary trends among amphibians of plant kingdom fortheir shift to land habitat.
			6	Evaluate the ecological and economic value of microbes, thallophytes and bryophytes.
2	BOT 2SK	Basics of Vascular plants and Phyto geography	1	Classify and compare Pteridophytes and Gymnosperms based on heirmorphology, anatomy, reproduction and life cycles.
			2	Justify evolutionary trends in tracheophytes to adapt for land habitat.
			3	Explain the process of fossilization and compare the characteristics of extinct andextant plants.
			4	Critically understand various taxonomical aids for identification of Angiosperms.
			5	Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families.

			6	Evaluate the ecological, ethnic and economic value of different tracheophytes andsummarize their goods and services for human welfare
			7	Locate different phytogeographical regions of the world and India and can analyze their floristic wealth

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DEPARTMENT OF BOTANY

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
3	BOT 3SK	**Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity**	1	Understand on the organization of tissues and tissue systems in plants.
			2	Illustrate and interpret various aspects of embryology.
			3	Discuss the basic concepts of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities.
			4	Appraise various qualitative and quantitative parameters to study the populationand community ecology.
			5	Enlist the endemic/endangered flora and fauna from two biodiversity hot spotsinIndia and assess strategies for their conservation.
4	BOT 4SK1	Plant Physiology and Metabolism	1	Comprehend the importance of water in plant life and mechanisms for transportof water and solutes in plants.
			2	Evaluate the role of minerals in plant nutrition and their deficiency symptoms.
			3	Interpret the role of enzymes in plant metabolism.

			4	Critically understand the light reactions and carbon assimilation processesresponsible for synthesis of food in plants.
			5	Analyze the biochemical reactions in relation to Nitrogen and lipid metabolisms.
			6	Evaluate the physiological factors that regulate growth and development in plants.
			7	Examine the role of light on flowering and explain physiology of plants under stress conditions.

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DEPARTMENT OF BOTANY

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
5	BOT 4SK2	**Cell Biology, Genetics and Plant Breeding**	1	Distinguish prokaryotic and eukaryotic cells and design the model of a cell.
			2	Explain the organization of a eukaryotic chromosome and the structure of genetic material.
			3	Demonstrate techniques to observe the cell and its components undera microscope.
			4	Discuss the basics of Mendelian genetics, its variations and interpret inheritanceof traits in living beings.
			5	Elucidate the role of extra-chromosomal genetic material for inheritance ofcharacters.
			6	Evaluate the structure, function and regulation of genetic material.
			7	Understand the application of principles and modern techniques in plant breeding.
			8	Explain the procedures of selection and hybridization for improvement of crops.

SGK Government Degree College
Vinukonda,Palnadu Dist-522647

DEPARTMENT OF COMMERCE

COURSE OUTCOMES

1st SEMESTER

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	BCO1S/RES1S-1K	Fundamentals of Accounting	1	Identify events that need to be recorded in the accounting
			2	Summarize the concepts and basics of accounting
			3	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP
			4	Analyze the difference between Indian Accounting system and International Accounting System in terms of Accounting Standards.
			5	Critically examine the balance sheets of a sole trader for different accounting periods.
			6	Design new accounting formulas & principles for business organizations.

2	BCO1S/RES1S-2K	Business organisation and Management	1	Identify different forms of business organizations
			2	Understand the scope of Business, and its importance.
			3	Understand the nature of Joint Stock Company and formalities to promote a Company
			4	Critically examine the various organisations of the business firms judge the best among.
			5	Design and plan to register a business firm. Prepare different documents to register a company at his own.
			6	Invent new models of business organisations.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
3	BCO1S-3K	Business Environment	1	Understand the concept of business environment.
			2	Define the terms like inflation, GDP, etc.
			3	Explain the economic trends like LPG and its effect on Government policies
			4	Critically examine the recent developments in economic and business policies of the Government
			5	Evaluate and judge the best business policies in Indian business environment.

2nd SEMESTER

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
4	BCO2S/RES2S-1K	Financial Accounting	1	Understand the concept of Consignment and learn the accounting treatment of the various aspects of consignment .
			2	Analyze the accounting process and preparation of accounts in consignment and joint venture
			3	Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture
			4	Determine the useful life and value of the depreciable asset and maintenance of Reserves in business entities.
			5	Design an accounting system for different models of businesses at his own using the principles of existing accounting system.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
5	BCO2S/RES2S-2K	Business Economics	1	Understand basic economic principles.
			2	Describe the nature of economics in dealing with the issues of scarcity
			3	Analyze supply and demand analysis and its impact on economic events in Markets
			4	Evaluate the factors affecting firm behaviour, such as production and costs
			5	Recognize market failure and the role of government in dealing with those failures
			6	Learn to use economic models to isolate the relevant elements of a managerial problem, identify their relationships, and formulate them into a managerial model.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
6	BCO2S-3K	Banking Theory and Practices	1	Demonstrate a comprehension of the principles of banking law and its relationship to banks and customers
			2	Demonstrate an awareness of law and practice in a banking context.
			3	Engage in critical analysis of the practice of banking law from a range of perspectives.
			4	Organize information as it relates to the regulation of banking products and services
			5	Critically examine the current scenario of Indian Banking system
			6	Formulate the procedure for better service to the customers from various banking innovations.

3rd SEMESTER

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
7	BCO3S/RES3S-1K	Advanced Accounting	1	Understand the concept of Non-profit organisations and its accounting process
			2	Comprehend the concept of single-entry system and preparation of statement of affairs
			3	Familiarize with the legal formalities at the time of dissolution of the firm
			4	Prepare financial statements for partnership firm on dissolution of the firm
			5	Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
8	BCO3S/RES3S-2K	Business Statistics	1	Understand the importance of Statistics in real life
			2	Formulate complete, concise, and correct mathematical proofs.
			3	Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques.
			4	Build and assess data-based models.
			5	Learn and apply the statistical tools in day life.
			6	Create quantitative models to solve real world problems in appropriate contexts.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
9	BCO3S-3K	Marketing	1	Develop an idea about marketing and marketing environment.
			2	Understand the consumer behavior and market segmentation process
			3	Comprehend the product life cycle and product line decisions
			4	Know the process of packaging and labeling to attract the customers.
			5	Formulate new marketing strategies for a specific new product.
			6	Develop new product line and sales promotion techniques for a given product.
			7	Design and develop new advertisements to given products

4th SEMESTER

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
10	BCO4S/RES4S-1K	Corporate Accounting	1	Understand the Accounting treatment of Share Capital and aware of process of book building.
			2	Demonstrate the procedure for issue of bonus shares and buyback of shares
			3	Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
			4	Participate in the preparation of consolidated accounts for a corporate group.
			5	Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.
			6	Communicate accounting policy choices with reference to relevant laws and accounting standards.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
11	BCO4S/RES4S-2K	Cost and Management Accounting	1	Understand various costing methods and management techniques.
			2	Apply Cost and Management accounting methods for both manufacturing and service industry
			3	Prepare cost sheet, quotations, and tenders to organization for different works.
			4	Analyze cost-volume-profit techniques to determine optimal managerial decisions.
			5	Compare and contrast the financial statements of firms and interpret the results.
			6	Prepare analysis of various special decisions, using relevant management techniques

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
12	BCO4S/RES4S-3K	Income Tax	1	Acquire the complete knowledge of the tax evasion, tax avoidance and tax planning.
			2	Understand the provisions and compute income tax for various sources
			3	Grasp amendments made from time to time in Finance Act.
			4	Compute total income and define tax complicacies and structure.
			5	Prepare and File IT returns of individual at his own.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
13	BCO4S/RES4S-4K	Business Law	1	Understand the legal environment of business and laws of business.
			2	Highlight the security aspects in the present cyber-crime scenario.
			3	Apply basic legal knowledge to business transactions.
			4	Understand the various provisions of Company Law
			5	Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legal issues.
			6	Integrate concept of business law with foreign trade.

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
14	BCO4S/RES4S-5K	Auditing	1	Understanding the meaning and necessity of audit in modern era
			2	Comprehend the role of auditor in avoiding the corporate frauds
			3	Identify the steps involved in performing audit process
			4	Determine the appropriate audit report for a given audit situation
			5	Apply auditing practices to different types of business entities
			6	Plan an audit by considering concepts of evidence, risk and materiality

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
15	BCO4S- 6K	Goods and Service Taxes (GST)	1	Understand the basic principles underlying the Indirect Taxation Statutes.
			2	Examine the method of tax credit. Input and Output Tax credit and Cross Utilisation of Input Tax Credit.
			3	Identify and analyze the procedural aspects under different applicable statutes related to GST.
			4	Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.
			5	Develop various GST Returns and reports for business transactions in Tally.

SGK Government Degree College
Vinukonda, Guntur Dist

DEPARTMENT OF ENGLISH

COURSE OUTCOMES

S.NO	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	ENG 1SK	COMMUNICATION & SOFT SKILLS	1	Understand the importance of communication
			2	Learn the rules of Grammar
			3	Apply Grammer effectively in writing & speaking
			4	Acquire good listening skills
			5	Develop good writing skills
			6	Demonstrate SWOC analysis in their personal & professional issues
			7	Utilise the tools of communication with full confidence
2	ENG 2SK	READING &WRITING SKILLS	1	Use reading skills effectively
			2	Develop reading skills
			3	Comprehend different texts
			4	Interpret different types of texts
			5	Analyse what is being read
			6	Build a good repository of Vocabulary
			7	Use good writing strategies
			8	Improve good writing skills
3	ENG 3SK	CONVERSATIONAL SKILLS	1	Develop good conversational abilities
			2	Speak fluently in English
			3	Confidently participate in any interaction
			4	Face any professional discourse at any situation
			5	Develop and Demonstrate good critical thinking
			6	Enhance conversational skills by observing professional interviews
			7	Learn conversational etiquette

SGK Government Degree College

Vinukonda, Palnadu Dist

DEPARTMENT OF HINDI

COURSE OUTCOMES

S.No	COURSE CODE	COURSE NAME	CO NUMBER	COURSE OUTCOMES
1	HIN 1SK	General Hindi (Prose & Short Stories)	1	Learning Hindi will make the students to know Ancient and Modern Literature and Grammar
			2	To acquire language skills (listening, Speaking, Reading & Writing)
			3	To have knowledge an Language and Literature of Hindi
			4	To enrich Hindi Vocabulary for better communication.
			5	To appreciate the use of Hindi in Modern world and to apply the knowledge acquired to make basic conversation and basic writings in Hindi.
2	HIN 2SK	General Hindi (Prose & Short Stories)	1	To have knowledge on the writing styles of different writers in Hindi.
			2	To develop critical thinking skills among the students
			3	To acquire social awareness through Short story literature.
			4	To gain the knowledge of Social, Cultural diversity in our country.
			5	To recognize the goodness of Hindi literature
3	HIN 3SK	Poetry & History of Hindi Literature.	1	To recognize the specialty of Ancient Poetry
			2	To have knowledge about the grammar aspects of Poetry
			3	Inculcation of moral values through teaching of Hindi poetry such as Kabirdas, Rahim and other prose writings.
			4	To understand the concept of History of Hindi literature.
			5	Evaluate Hindi literature from past to present and using it as lens to understand society.

SGK Govt. Degree College, Vinukonda

Department of Telugu

Course Outcomes

S.No.	Course Code	Course Name	Course Type	Course Outcomes
1	TEL1SK	Classical Literature		1. To recognize the uniquenessand goodness of classical literature. To acquire language and cultural aspects of Nannaya's age. To understand the political matters of epic age. 2. To recognize religious contest &language aspects of shivakavi era. To gain knowledge of idioms, proverbs, sayingsof language at that era. 3. To understand the uniqueness of Tikkana's style in the history of Telugu literature. To acquire knowledge about religious & ethical values atthe time of Tikkana Bharatham. 4. To gain knowledge about poetic and social aspects of Srinadha's age. 5. To recognize the specialties of Molla poetry. 6. To develop interest on poetic verses and classical literature. To develop linguistic capabilities through grammar...
2	TEL2SK	Modern Telugu Literature.		7. To identify the uniqueness of modern Telugu literature and the influence of English literature on it. 8. To acquire good knowledge of contemporary literary genres like freeverse, short story, novel, drama and criticism. 9. To gain the knowledge about the objectives of Romantic and progressive poetry. To identify the root causes for existential movements. 10. To acquire social awareness through short story literature. To review the conventional concepts by analysing realistic situations. 11. To gain social, cultural diversity &political awareness.

3	TEL3SK	Creative writing.		12. To develop creativity skills through study of literature. 13. To identify the need &importance of language in the life of an individual as well as strengthening of social system. 14. To understand the key aspects like Varnam, padam, vaakyam of Telugu literature. To develop talking and writing skills. 15. To learn language skills and use them in creative writing. 16. To learn structural concepts of different genres and use them in creative writing. 17. To grab different opportunities in the fields of creative writing and media. 18. To excel in the field of translation.

SGK Govt. Degree College, Vinukonda

Department of Chemistry

Course Outcomes w.e.f 2020-21

COURSE CODE: CHE1SK-INORGANIC AND PHYSICAL CHEMISTRY		COURSE OUT COMES
CO Code	**Course Outcome** Upon the successful completion of the course ,the student will be able to	
CO1	Understand the properties of p-block elements, Preparations and structures of some important compounds of p-block elements, Realize the industrial importance and applications of some compounds of p-block elements such as silicones	Paper 1
CO2	Understand the Properties and aplications of d-block elements with special emphasis on their characteristic properties	
CO3	Distinguish among Solids,Liquids and gases in terms of intermolecular attractions and demonstrate the interdependence of properties of gases on one another.Understand the concept and applications of Joule-Thomson effect.	
CO4	Enrich the basic concepts of solids and able to appreciate the application of diffraction phenomena to understand the internal structure of crystals besides knowing the various applications of defects in crystals	
CO5	Understand the fundamental concepts of solutions, Azeotropic mixtures, Critical solution temperature, Nernst Distribution law and it's applications	
CO6	Have a broad insight into colligative properties, their experimental determination and their application to understand the fate of solute in the solvent.	
PRACTICALS		
CO1	Familiarize with the basic concepts associated with qualitative analysis of inorganic mixtures	Practical 1
CO2	Improve the skill of Using Laboratory equipment and chemicals	
CO3	Apply the concepts of common ion effect, solubility product and concepts related to qualitative analysis	

COURSE CODE:CHE2SK-ORGANIC AND GENERAL CHEMISTRY COURSE OUT COMES		
CO Code	**Course Outcome**	
CO1	Understand the fundamental concepts of Organic chemistry and basing on which he/she can demonstrate the behavior of organic compounds	Paper 2
CO2	Learn different types of organic reaction mechanisms with examples	
CO3	Formulate the mechanism for given organic reaction by recalling and correlating the fundamentals of reaction mechanism learnt	
CO4	Know the various methods of molecular representations and can describe the stereochemical properties of organic compounds	
CO5	Understand the various theories of Chemical Bonding, able to draw molecular orbital diagrams of molecules and estimate the bond order	
CO6	Enrich the knowledge of colloids and understand the adsorption phenomena and it's applications	
	Volumetric Analysis Practical	Practical 2
CO1	Use glassware, equipment and chemicals and follow experimental procedures in the laboratory	
CO2	Understand and explain the volumetric analysis based on fundamental concepts learnt in ionic equilibria	
CO3	Learn and identify the concepts of a standard solutions, primary and secondary standards	
CO4	Facilitate the learner to make solutions of various molar concentrations. This may include: The concept of the mole; Converting moles to grams; Converting grams to moles; Defining concentration; Dilution of Solutions; Making different molar concentrations.	

COURSE CODE:CHE3SK INORGANIC & ORGANIC CHEMISTRY COURSE OUT COMES		
CO Code	**Course Outcome** Upon the successful completion of the course ,the student will be able to	
CO1	Understand the Properties and aplications of d, f -block elements with special emphasis on their characteristic properties	Paper 3
CO2	Understand and apply the different theories and appreciate the hardship and greatness of scientists.	
CO3	Draw the structures and applications of Metal Carbonyls	
CO4	Understand the methods of preparation, properties and reactions of halo alkanes, halo arenes and oxygen containing functional groups	
CO5	Apply the concepts of synthetic chemistry to transform one functional group into another	
CO6	Learn the mechanisms of various important named reactions and their applications, Propose the plausible reaction mechanisms	
ORGANIC PREPARATIONS AND IRSPECTRAL ANALYSIS PRACTICAL		
CO1	Acquire hard skills such as calculating limiting reagent,theoretical yield,percent yield	Practical 3
CO2	How to engage in safe laboratory practices by handling laboratory glassware, equipment and chemical reagents appropriately	
CO3	Learn how to perform common laboratory techniques including reflux,distillation,recrystallization,vacuum filtration	
CO4	How to create and carry out work up and separation processes	
CO5	How to critically evaluate data collected to determine the identity,purity and percent yield of products and summarize findings in clear and concise manner	

COURSE CODE:CHE4S SPECTROSCOPY & ORGANIC CHEMISTRY COURSE OUT COMES		
CO Code	**Course Outcome** **Upon the successful completion of the course ,the student will be able to**	
CO1	Understand the basic concepts and under lying principles of Spectroscopy	Paper -4
CO2	Draw important conclusions with regard to structure of molecule from the data of various types of spectra	
CO3	Have a broad insight into colligative properties, their experimental determination and their application to understand the fate of solute in the solvent.	
CO4	Enrich basics of electrochemistry, applications of conductivity measurements in conductometric titrations. learn about electrochemicall cells construction and their application in potentiometric titrations.conceive the concept of fuel-cells and their application as good prospect of alternative source of energy	
CO5	Understand the concept of phase rule ,draw the phase diagrams of one and two component systems and analyze the phase diagrams to arrive to the conditions of existence of a particular phase.	
Physical Chemistry & IR SPECTRAL ANALYSIS PRACTICAL		
CO1	Use glassware, equipment and chemicals and follow experimental procedures in the laboratory	Practical 4
CO2	Apply concepts of electrochemistry in experiments	
CO3	Be familiar with electro analytical methods and techniques in analytical chemistry	

COURSE CODE:CHE5SA- INORGANIC,ORGANIC AND PHYSICAL CHEMISTRY

COURSE OUT COMES

CO Code	Course Outcome	
CO1	Understand broadly the various theories of coordinate complexes. Apply the concept of isomerism to complexes. Draw various three dimensional isomers of complexes	Paper 5
CO2	Differentiate between strong and weak field complexes and Explain the structures of Complexes and apply for new complex.	
CO3	Understand the stability measures of complexes and the factors that effect stabilities	
CO4	Propose the plausible reaction mechanisms	
CO5	Understand the preparation,properties and important reactions of nitro compounds,amines, diazonium salts and their usage in the manufacturing of dyes	
CO6	Understand the basic definitions and laws of Thermodynamics and recognize and appreciate it's inter relevance in bridging the fundamental laws of physics to know the spontaneity of a process	
	ORGANIC QUALITATIVE ANALYSIS PRACTICAL	
CO1	Use glassware, equipment and chemicals and follow experimental procedures in the laboratory	Practical 5
CO2	Determine melting and boiling points of organic compounds	
CO3	Understand the application of concepts of different organic reactionsstudied in theory part of organic chemistry	

COURSE CODE:CHE5SB- INORGANIC,ORGANIC AND PHYSICAL CHEMISTRY
COURSE OUT COMES

CO Code	Course Outcome	
CO1	Distinguish between SN^1 and SN^2 reaction mechanisms and apply trans effect in substitution reactions.	Paper 6
CO2	Imbibe the importance of some elements in bio systems and appreciate the functions of hemoglobin and chlorophyll	
CO3	Understand the concept of reaction rates and factors effecting it. Assimilate various theories of reaction rates.	
CO4	Distinguish between photochemical reaction and thermochemical reaction, understand the laws of photochemistry, quantum yield and it's significance.Demonstrate the phenomena such as fluorescence and phosphorescence with the help of Jablonski diagram	
CO5	Have a Comprehensive idea on the definition, classification, biological importance of carbohydrates. Demonstrate the interconversions of monosaccharides basing the principles of Functional group interconversion	
CO6	Classify heterocyclic compounds into different types, understand their importance in biological science and Acquire the in depth knowledge of Amino acids and proteins	
	PHYSICAL CHEMISTRY PRACTICAL	
CO1	Use glassware, equipment and chemicals and follow experimental procedures in the laboratory	Practical 6
CO2	Apply the procedure to Determine the Viscosity and Surface tension of a liquid	
CO3	Apply the procedure to Determine the rate constant for acid catalyzed ester hydrolysis in theory part of organic chemistry	

COURSE CODE:CHE6SB-ENVIRONMENTAL CHEMISTRY
COURSE OUT COMES

Course Outcome Upon the successful completion of the course ,the student will be able to	
Understand the different segments of Environment and the possible activities taking place in the respective segments.	Paper 7
Know Parameters for assessing water quality and their determination	
Describe the various methods purifications	
Have a broad understanding of Environmental pollution-causes and remedies to bring the level of pollutions to the permissible level.	
Perform the determination of hardness of water in laboratory	
Propagate the environmental consciousness among the neighbors	