S.V.K.P & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE (A)

PENUGONDA - 534 320, W. G. Dt., A. P.

"Recognized by UGC as "College with Potential for Excellence"

Re-accredited by NAAC with 'A'

Website: https://svkpandksrajucollege.edu.in

PROGRAMME SPECIFIC OUTCOMES

2022-2023

S.V.K.P & Dr.K.S RAJU A & Sc COLLEGE (A) PENUGONDA
2022-23

Programme Specific Outcomes : B. Sc., MPC

Physics :

PSo1 : Educating students in the Core of Physics, including substantial practical and experimental physics, while enabling students to train in both the theoretical and practical aspects.

PSo2 : Providing high quality education in Physics within an Environment Committed to excellence in teaching.

PSo3 : Usage of mathematics in Physics equations to describe, interpreting results and critically comparing them with experiment and observations.

Chemistry :

PSo1 : Acquire Technical Skills required for the synthesis and structural characterisation of organic and inorganic compounds.

PSo2 : Obtain theoretical knowledge in various spectro analytical techniques with wide applications.

PSo3 : Knowledge in Chemistry concepts relates to other disciplines of Science.

Mathematics :

PSo1 : Distinguish between linear, non linear, partial and ordinary differential equations.

PSo2 : Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems.

PSo3 : Understand the role of computations as a tool in real world problem solving.

S.V.K.P & Dr. K.S. RAJU ARTS SCIENCE COLLEGE (A), PENUGONDA

PROGRAMME SPECIFIC OUTCOME B.Sc (M.P.E)

Mathematics :

PSo1 : Distinguish between linear, non linear, partial and ordinary differential equations.

PSo2 : Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems.

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PSo2 : Providing high quality education in Physics within an Environment Committed to excellence in teaching.

PSo3 : Usage of mathematics in Physics equations to describe, interpreting resultsand critically comparing them with experiment and observations.

Electronics:

PSo1 : Acquire skills in areas related to their specialization area within the disciplinary/subject area of Electronics.

PSo2 : Recognize the importance of modelling simulation and computing, and the role o approximation and mathematical approaches to describing the Electronic world

PSo3 : Acquire a systematic and coherent understanding of basic Electronics including theconcepts, theories and relevant experimental techniques in the domains of CircuTheory & Electronic Devices, Digital Electronics, Analog Circuits & Communicati Microprocessor Systems and Microcontroller & Interfacing and of the specializedfield like Embedded Systems, Internet of Things, Consumer Electronics & Electri Vehicles. in their choice of Skill Enhancement Courses.

S.V.K.P & Dr. K.S. RAJU ARTS SCIENCE COLLEGE (A), PENUGONDA

PROGRAMME SPECIFIC OUTCOME B.Sc (M.E.Cs)

Mathematics :

PSo1 : Distinguish between linear, non linear, partial and ordinary differential equations.

PSo2 : Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems.

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PSo3 : Acquire a systematic and coherent understanding of basic Electronics including theconcepts, theories and relevant experimental techniques in the domains of Circuit. Theory & Electronic Devices, Digital Electronics, Analog Circuits & Communication Microprocessor Systems and Microcontroller & Interfacing and of the specialized field like Embedded Systems, Internet of Things, Consumer Electronics & Electric Vehicles in their choice of Skill Enhancement Courses.

Computer Science:

PSo1: Students will be able to communicate in written and oral forms in such a way as to demonstrate their ability to present information clearly, logically, and critically.

PSo2:Students will be able to apply mathematical and computing theoretical concepts in solution of common computing applications, such as computing the order of an algorithm.

PSo3: Students will be able to use appropriately system design notations and apply system design engineering process in order to design, plan, and implement software systems

S.V.K.P & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE (A), PENUGONDA-

BSc., (Mathematics, Physics, Computer Science)

Program Specific Objectives:

Mathematics :

PSo1 : Distinguish between linear, non linear, partial and ordinary differential equations.

PSo2 : Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems.

PSo3 : Understand the role of computations as a tool in real world problem solving.

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S.V.K.P & Dr. K.S. RAJU ARTS SCIENCE COLLEGE (A), PENUGONDA

PROGRAMME SPECIFIC OUTCOME B.Sc (M.C.Cs)

Program Specific Objectives:

Mathematics :

PSo1 : Distinguish between linear, non linear, partial and ordinary differential equations.

PSo2 : Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems.

PSo3 : Understand the role of computations as a tool in real world problem solving.

Chemistry :

PSo1 : Acquire Technical Skills required for the synthesis and structural characterisation of organic and inorganic compounds.

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S. V. K. P. & DR. K. S. RAJU ARTS & SCIENCE COLLEGE (A),

Programme specific outcome (BZC) -2022-2023

BOTANY:

PSo1: Expose themselves to the diversity amongst life forms

PSo2: Make aware of natural resources and environment and the importance ofconserving it.

PSo3:Identification of Herbal Plants.

ZOOLOGY:

PSo1: Identify and list out common animals.

PSo2: Explain various physiological changes in our bodies.

PSo3:Analyze the impact of environment on our bodies.

PSo4: Understand various genetic abnormalities.

PSo5: Explain the role and impact of different environmental conservationprogrammes.

PSo6: Identify animals beneficial to humans.

CHEMISTRY:

PSo1: To be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise thestudents of its relevance in future studies.

PSo2: To be exposed to the different processes used in industries and theirapplications.

S. V. K. P. & DR. K. S. RAJU ARTS & SCIENCE COLLEGE (A),

Programme specific outcome (CZBT) - 2022-2023

CHEMISTRY:

PSo1: To be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise thestudents of its relevance in future studies.

PSo2: To be exposed to the different processes used in industries and theirapplications.

Zoology:

PSo1: Identify and list out common animals.

PSo2: Explain various physiological changes in our bodies.

PSo3: Analyze the impact of environment on our bodies.

PSo4: Understand various genetic abnormalities.

PSo5: Explain the role and impact of different environmental conservationprogrammes.

PSo6: Identify animals beneficial to humans.

BIOTECHNOLOGY:

PSo1: Biotechnology is a field of applied biology that involves the use of livingorganisms and bioprocesses in engineering, technology, medicine and other fields requiring by products.

PSo2: Biotechnology being a multidisciplinary field is in great demand becauseof its various applications in the field of research and development.

S. V. K. P. & DR. K. S. RAJU ARTS & SCIENCE COLLEGE (A),

Programme Specific Outcome (MBBCBT) - 2022-2023

Microbiology:

PSo1: In this programme the knowledge of Microbiology emphasizing distribution, morphologyand physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. This course also includes sophomore level material covering immunology, virology, epidemiology and DNA technology.

Biochemistry:

PSo1: In this programme the knowledge of Biochemistry presents the chemical reactions andmetabolic functions in the living system and their regulations. This course also include the concept of Basic Structure and metabolism of Bio molecules.

BIOTECHNOLOGY:

PSo1: Biotechnology is a field of applied biology that involves the use of living organisms and bioprocesses in engineering, technology, medicine and other fields requiring by products.

PSo2: Biotechnology being a multidisciplinary field is in great demand because of its various applications in the field of research and development.

S.V.K.P. & Dr.K.S.RAJU ARTS & SCIENCE COLLEGE, PENUGONDA

BA., (HEP) Programme Specific Outcomes (P.S.Os)

History:

PSO 1: Understand background of our religion, Customs institutions, Administration and so on

PSO2: Understand the present existing social Political, religious and Ecomic conditions of the people.

PSO3: analyze relations ship between the past and present is lively presented in the history.

PSO4: develop practical skills helpful in the study and understanding historical events.

Economics:

PSO1: To able to Understand basic concepts of economics.

PO2: To able to analyze economic behavior in practice.

PSO3: Understand the economic way of thinking.

PSO4: The ability to analyze historical and current events from an economic perspective.

PSO5: The ability to write clearly expressing an economic point of view.

PSO6: Be exposed to alternative approaches to economic problems through exposure toCourse work in allied fields.

PSO7: To create students ability to suggest of the various economic problems.

Politics:

PSO 1: Knowledge about political system of the nation.

PSO 2: study of national and international political affairs.

PSO 3; study from competitive examination point of view.

PSO 4: Understanding the government mechanism, its functions, duties and responsibilities.

PSO 5: Creating appropriate and efficient political leaders.

PSO 6: Getting knowledge of political law.

PSO 7: Getting knowledge of Constitution of India

S.V.K.P & Dr. K.S. RAJU ARTS SCIENCE COLLEGE (A), PENUGONDA
PROGRAM SPECIFIC OUTCOMES

B.Com (General)For the AcademicYear::2022-23

Program Specific Outcomes (PSOs):

PSO 1: Students will gain thorough subject skills within various disciplines of commerce, business, accounting, economics, banking, insurance finance, and auditing

PSO 2: Students will have a thorough learning and application of accounting standards in context of contemporary corporate system and legislation.

PSO 3: The course focuses on In-depth knowledge of laws relating to consumers, employees, tax and companies.

PSO 4: Students will acquire the skills for analyzing and interpreting financial statements which will help them in taking financial decisions for organizations.

PSO 5: Learners will be able to recognize features and roles of businessmen, entrepreneur, managers and consultants, who will help them to possess knowledge and other soft skills required for critical decision making.

PSO 6: Students will be able to pursue their career as Financial Analyst apart from different positions in the field of accounting, taxation, banking, insurance and corporate law.

S.V.K.P & Dr. K.S. RAJU ARTS SCIENCE COLLEGE (A), PENUGONDA
DEPARTMENT OF COMMERCE (U.G)

PROGRAMME SPECIFIC OUTCOMES

B.Com (Computer Applications)For the Academic Year 2022-23

Program Specific Outcomes (PSOs):

PSO 1: Students will gain thorough subject skills within various disciplines of commerce, business, accounting, economics, banking, insurance finance, and auditing

PSO 2: Students will have a thorough learning and application of accounting standards in context of contemporary corporate system and legislation.

PSO 3: The course focuses on In-depth knowledge of laws relating to consumers, employees, tax and companies.

PSO 4: Students will acquire the skills for analyzing and interpreting financial statements which will help them in taking financial decisions for organizations.

PSO 5: Learners will be able to recognize features and roles of businessmen, entrepreneur, managers and consultants, who will help them to possess knowledge and other soft skills required for critical decision making.

PSO 6: Students will be able to pursue their career as Financial Analyst apart from different positions in the field of accounting, taxation, banking, insurance and corporate law.

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PENUGONDA - 534 320, W. G. Dt., A. P.
MCA PROGRAM SPECIFIC OUTCOMES

PSO1: Apply the knowledge of computer application to find solutions for real-life application

PSO2: Ability to analyze, design, develop and maintain the software application with latest technologies

PSO3: Utilize skills and knowledge for computing practice with commitment on social, ethical, cyber and legal values.

PSO4: Inculcate employability and entrepreneur skills among students who can develop customized solutions for small to large Enterprises.

S. V. K. P. & Dr. K. S. RAJU ARTS & SCIENCE COLLEGE (A)

MBA SPECIFIC PROGRAMME OUT COMES

FINANCIAL MANAGEMENT

PSO1: Analyze the financial performance of an organization and apply varioustools that aid in decision making.

PSO1: To enable the students to apply the knowledge of Accounting standards,financial analytical tools and costing techniques, etc.

PSO1: The students will be able to identify the relevance of financing, investingand dividend decisions and impact the growth of the form.

PSO1: The students are able to enhance their knowledge on various financialmarkets and services.

PSO1: To analyze and understand the financial perspective of risk management ina broader contest.

MARKETING MANAGEMENT

PSO1: To understand the basic concepts of marketing and marketingenvironment.

PSO2: Develops knowledge about marketing mix concept in the organization.

PSO3: To understand the diverse set of marketing challenges of product concepts. To evaluate integrated marketing communication system.

PSO4: To identify various pricing concepts and understand different modes ofchannel of distribution systems.

HUMAN RESOURCE MANAGEMENT

PSO1: To gain knowledge of various HR functions

PSO2: To understand and design of recruitment and selection process in theorganization.

PSO3: To know the performance appraisal system, its process and reviewanalysis.

PSO3: To understand of training and development concepts in the organization.

PSO4: To know the legal knowledge for employee in the real time workenvironment.

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M.Sc. ORGANIC CHEMISTRY – PROGRAM SPECIFIC OUTCOMES

S. No.	PSO Number	Program Specific Outcome
1	PSO 1	Students will be able to gain knowledge in new areas of research in both chemistry and allied fields of science and technology. They will get good opportunities in various research institutes like IICT and industries like Dr. Reddy's, Hetero Drugs, Aurbindo, Laurus labs and Divi's etc.
2	PSO 2	After learning this course student is equipped with both theory and practical knowledge of Reaction mechanism, synthesis, estimations, isolation, purification, chromatography and spectroscopic techniques.
3	PSO 3	Students will gain knowledge to play a key role in our society as a basis for ethical behaviour of safe handling of chemicals and maintaining environmental issues.
4	PSO 4	Students will gain sound knowledge on various theoretical concepts, quality control aspects and instrumentation techniques. Chemistry is only the subject to explain all events occurred in universe through micro level.

PROGRAM SPECIFIC OUT COMES (PSO) OF M.SC. ZOOLOGY

PSO1: 19ZOOT11 - TOOLS AND TECHNIQUES FOR BIOLOGY

Biological & Chemical assay. Microscopy, Instrumentation: pH meter, Centrifugation, types of centrifuges, Chromatography; TLC, GC & HPLC. Principles, instrumentation and applications of UV, visible, infrared, NMR spectroscopy; Spectrofluorimetry and mass spectrometry. X-ray diffraction, Incorporation of radio-isotopes in Radiolabeling techniques, media preparation, sterilization, inoculation growth monitoring microbial assays. .

PSO2: 19ZOOT12 BIOSYSTEMATICS, BIODIVERSITY AND EVOLUTION

Importance and applications of biosystematics, Biological classification-Theories. Taxonomic keys types of taxonomy origin of basic biological molecules origin and diversification of eukaryotes, Universal common ancestor and tree of life, speciation, Concepts of evolution, Hardy Weinberg law. Phylogenetic gradualism.

PSO3: 19ZOOT13 BIOMOLECULES

Chemical foundations of biology, classification of amino acids, Proteins, Carbohydrates, Lipids, fatty acids and Nucleic acids

PSO4: 19ZOOT14 MOLECULAR CELL BIOLOGY

Experimental system in Cell Biology Biomembranes composition, Transport across membrane Cytoskeleton, Cell-Cell Signaling, Cell-Cell adhesion and communication, Cell cycle, Genome organization and Intracellular protein traffic.

PSO5: 19ZOOP15 TOOLS AND TECHNIQUES FOR BIOLOGY LAB:

Development of theoretical and Practical knowledge in Spectrophotometry , Centrifugation, Paper chromatography, Electrophoresis, pH Meter, Microscopy and tissue preparation for SEM & TEM procedure.

PSO6: 19ZOOP16 BIOSYSTEMATICS, BIODIVERSITY AND EVOLUTION LAB:

Understanding of Invertebrate and Vertebrate Phyla, types of Speciation-Models/Charts, Problems on Hardy-Weinberg law, Random genetic drift causing change in gene frequency-Practical demonstration and recent studies in Evolution- Examples

PSO7: 19ZOOP17 BIOMOLECULES LAB:

Development of practical knowledge in estimation of glycine by formal titration, Estimation of proteins by Lowry and Biurett methods, Analysis and identification of monosaccharides, Estimation of maltose by DNS method, Determination of Iodine value of oils, Estimation of Cholesterol and TLC of Amino acids

PSO8: 19ZOOP18 Molecular cell Biology lab:

Understanding of Light microscopic examination of tissues, Preparation of different Cell – types, Stages of Mitosis and Meiosis, Squash preparation, Sub-cellular fractionation – separation of macromolecules

S.V.K.P & Dr K.S.RAJU ARTS & COLLEGE (A) PENUGONDA

Program Specific Outcomes :(M.Sc. Botany)

For the Academic Year 2022-23

PSO1

Understand the nature and basic concepts of cell biology, Biochemistry, Taxonomy and ecology.

PSO2.

Analyse the relationships among animals, plants and microbes.

PSO3.

Perform procedures as per laboratory standards in the areas of Biochemistry, Bioinformatics, Taxonomy, Economic Botany and Ecology