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

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

PENUGONDA, W. G. Dt-534 320

Recognised by UGC as "College with Potential for Excellence"

Reaccredited by NAAC with "A" Grade

DEPARTMENT OF ENGLISH

PROGRAMME SPECIFIC OUTCOMES: (2022—2023)

PSO1 : On successful completion of the programme, the students will be accurate both in oral and written communication as they will be strong in grammar and its usage.

PSO2 : They can express through command of English and its language patterns.

PSO3 : They can apply critical frame works to analyze the cultural and historical background of tests written in English.

PSO4 : Students able to speak good English Language.

S. V. K. P. Dr. K. S. Raju Arts & Science College (A), Penugonda

DEPARTMENT OF TELUGU

Program Specific Outcomes
For the Academic Year 2022-23

PSO1: Students gain the master knowledge in Communication Skills, Reading Skills and Writing Skills effectively as Professionals and continue learning within the field of Telugu language and Literature.

PSO2: Confidence among students toward Indian culture.

PSO3: Providing job opportunities through Telugu language.

PSO4: Encouraging students for their energy levels of creativity in Writing Poetry and Stories etc.,

PSO5: Developing philosophy of life inspiring by the vision of eminent writers.

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PENUGONDA -534320, W.G.Dt., A.P.

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DEPARTMENT OF HINDI

Programme Specific Outcomes

PSO1: On successful completion of the programme, the students Will be accurate both in oral and written communication As they will be strong in grammar and its usage.

PSO2: They can express through command of Hindi and its language patterns.

PSO3: They can apply critical fame works to analyze the cultural and historical background tests written in Hindi.

PSO4: Student able to speak good Hindi Language.

S. V. K. P. Dr. K. S. Raju Arts & Science College(A), Penugonda

DEPARTMENT OF MATHEMATICS

PROGRAM SPECIFIC OUTCOMES
For the Academic Year 2022-23

After the successful completion of this course, the student will:

- Be able to explain the core ideas and the techniques of mathematics at The college level.
- Be able to recognize the power of abstraction and generalization, and to carry out investigative mathematical work with independent judgment.
- Be able to setup mathematical models of real world problems and obtain solutions in structured and analytical approaches with independent judgement.
- Be able to carry out objective analysis and prediction of quantitative information with independent judgment.
- Be able to communicate effectively about mathematics to both lay and expert audiences utilizing appropriate information and communication technology.
- Be able to work independently, and to collaborate effectively in team work and team building.
- Be able to conduct self-evaluation, and continuously enrich themselves through lifelong learning.
- Be able to communicate to lay audiences and arouse their interest in the beauty and precision of mathematical arguments and science.
- Be able to recognize the importance of compliance with the ethics of science and being a responsible citizen towards their community and a sustainable environment.
- Be able to cultivate a mathematical attitude and nurture the interests.

S.V.K.P & Dr.K.S RAJU A & Sc COLLEGE (A) PENUGONDA
DEPARTMENT OF PHYSICS
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.

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

DEPARTMENT OF ELECTRONICS (U.G)
PROGRAMME SPECIFIC OUTCOME B.Sc (M.P.E/M.E.CS)
B.ScELECTRONICS

The student graduating with the Degree B.Sc. Programme with Electronics discip B.Sc. (MPE/MECS) should be able to.

Acquire a systematic and coherent understanding of basic Electronics including t concepts, theories and relevant experimental techniques in the domains of Circu Theory & Electronic Devices, Digital Electronics, Analog Circuits & Communicati Microprocessor Systems and Microcontroller & Interfacing and of the specialized field like Embedded Systems, Internet of Things, Consumer Electronics & Electri Vehicles. in their choice of Skill Enhancement Courses.

Acquire wide ranging and Circuit Theory & Electronic Devices, Digital Electronic Analog Circuits & Communication Electronics, Microprocessor Systems and Microcontroller & Interfacing, etc. Students acquire the ability for systematic designing and analysis of circuits, recording of proper observations, use of scien research instruments, analysis of observational data, making suitable error estim and scientific report writing.

Acquire procedural knowledge that creates different types of professionals relat the disciplinary/subject area of Electronics and multi/interdisciplinary domains including professionals engaged in research and development, teaching, technol professions and government/public service.

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

Demonstrate the ability to use skills in Electronics and its related areas of techno for formulating and solving problems and identifying and applying appropriate physical principles and methodologies to solve a wide range of problems associa with Electronics and its interface with other subjects studied in the course.

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

Plan and execute experiments or investigations related to Electronics and its interface with other subjects studied in the course analyse and interpret data/information collected using appropriate methods, including the use of appropriate software such as programming languages and purpose-written pack and report accurately the findings of the experiment/investigations while relatin conclusions/findings to relevant theories.

S.V.K.P & Dr. K.S.RAJU ARTS & SCIENCE COLLEGE (Autonomous)
Accredited by NAAC with "A" Grade , Recognized by UGC as "College with Potential for Excellence(2016-21)"
& ISO Certified Institution (with 3 ISO Certificates)
(Affiliated to ADIKAVI NANNAYA UNIVERSITY - Recognized by Govt. of Andhra Pradesh)
PENUGONDA – 534320. W.G.DIST.A.P. INDIA
Phone No: 08819-246126 Email Id:svkp_penugonda@rediffmail.com Website : svkpandksrajucollege.edu.in

PROGRAMME SPECIFIC OUTCOME FOR 2022-23

U.G DEPARTMENT OF CHEMISTRY

B.Sc., (Mathematics, Chemistry and Computer science)

Program Specific Objectives:

- Bachelor of Science in Chemistry is to prepare students for successful careers and for advanced graduate study in Chemistry.
- To impart knowledge of a broad range of Chemical instruments, apparatus, tools, and mathematical & computer techniques, and the capability of applying them to analyze and synthesis the compounds.
- To make them understand fundamental theoretical and practical concepts in Chemical Science.
- Impart capability of solving a wide variety of problems by applying principles of computational thinking.
- Inculcate habits of working effectively and professionally on analysis of chemical components.

Programme Specific Outcome:

PSO1: Gain the knowledge of Chemistry through theory and practical.

PSO2: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO3: Identify chemical formulae and solve numerical problems.

PSO4: Use modern chemical tools, Models, Chem-draw, Charts and Equipments.

PSO5: Know structure-activity relationship.

PSO6: Understand good laboratory practices and safety.

PSO7: Develop research oriented skills.

PSO8: Make aware and handle the sophisticated instruments/equipments.

.V.K.P & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE (A), PENUGONDA-534320
Accredited by NAAC with "A" Grade
Recognized by UGC as College with Potential for Excellence
DEPARTMENT OF COMPUTER SCIENCE
Bachelor of Science (Mathematics, Physics, Computer Science)

Program Specific Objectives:

1. 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.
2. 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.
3. Students will be able to complete successfully be able to program small-to-mid- size programs on their own. Sufficient programming skills will require use of good practice, e.g., good variable names, good use of computational units, appropriate commenting strategies.
4. 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
5. In a self-selected area of depth in Computing, students will demonstrate a depth of knowledge appropriate to graduate study and/or lifelong learning in that area. Students should be able to read for understanding materials in that area beyond those assigned in coursework.
6. Students will be prepared for a career in an information technology oriented business or industry, or for graduate study in computer science or other scientific or technical fields.
7. Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems

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

DEPARTTMENT OF ZOOLOGY (UG)

Programme specific outcome (BZC & CZBT) - 2022-2023

Zoology:

The graduate of this programme should be able to

- Identify and list out common animals.
- Explain various physiological changes in our bodies.
- Analyze the impact of environment on our bodies.
- Understand various genetic abnormalities.
- Explain the role and impact of different environmental conservation programmes.
- Identify animals beneficial to humans.

BOTANY:

- Expose themselves to the diversity amongst life forms
- Make aware of natural resources and environment and the importance of conserving it.

BIOTECHNOLOGY:

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

CHEMISTRY:

- To be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies.
- To be exposed to the different processes used in industries and their applications.

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

DEPARTTMENT OF BOTANY (UG)

Programme specific outcome (BZC) -2022-2023

BOTANY:

- Expose themselves to the diversity amongst life forms
- Make aware of natural resources and environment and the importance of conserving it.
- Identification of Herbal Plants.

ZOOLOGY:

The graduate of this programme should be able to

- Identify and list out common animals.
- Explain various physiological changes in our bodies.
- Analyze the impact of environment on our bodies.
- Understand various genetic abnormalities.
- Explain the role and impact of different environmental conservation programmes.
- Identify animals beneficial to humans.

CHEMISTRY:

- To be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies.
- To be exposed to the different processes used in industries and their applications.

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

DEPARTMENT OF BIOTECHNOLOGY

PROGRAMME SPECIFIC OUTCOM: B.Sc., (CZBt) 2022-2023

The program Biotechnology, Zoology and chemistry has been introduced to prepare the students for a career which finds application and provides solution to some of the major contemporary problems on the earth i.e., providing food for growing population, designing advanced medical treatment options for increasing –evolving diseases, to find solution to deteriorating environment caused due to over exploitation / misuse of natural resources etc.,

In this program the study of zoology offers the understanding about origin of life and the scope to manipulate the knowledge for better society through catering to the needs and growing demands of the population.

In this program the knowledge about the subject chemistry comes in to play when structures of biomolecules and their interactive relations to the environment are to be understood.

Finally the subject biotechnology amalgamates the various disciplines of sciences and offers ethically acceptable knowledge to bring about sustainable solutions for a variety of problems related to Agriculture, Environment, Quality of human life. These problems are solved with responsibility using appropriate tools while keeping in mind safety factor of Environment and society.

PROGRAMME SPECIFIC OUTCOME : B. Sc (MBBCBT)

The program Microbiology, Biochemistry & Biotechnology has been introduced to prepare the students for a career which finds application and provides solution to some of the major contemporary problems on the earth i.e., providing food for growing population, designing advanced medical treatment options for increasing –evolving diseases, to find solution to deteriorating environment caused due to over exploitation / misuse of natural resources etc.,

In this programme the knowledge of Microbiology emphasizing distribution, morphology and 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.

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

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

DEPARTMENT OF BIOCHEMISTRY

PROGRAMME SPECIFIC OUTCOME : B. Sc (MBBCBT)

The program Microbiology, Biochemistry & Biotechnology has been introduced to prepare the students for a career which finds application and provides solution to some of the major contemporary problems on the earth i.e., providing food for growing population, designing advanced medical treatment options for increasing –evolving diseases, to find solution to deteriorating environment caused due to over exploitation / misuse of natural resources etc.,

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

DEPARTMENT OF MICROBIOLOGY

PROGRAMME SPECIFIC OUTCOME : B. Sc (MBBCBT)

The program Microbiology, Biochemistry & Biotechnology has been introduced to prepare the students for a career which finds application and provides solution to some of the major contemporary problems on the earth i.e., providing food for growing population, designing advanced medical treatment options for increasing –evolving diseases, to find solution to deteriorating environment caused due to over exploitation / misuse of natural resources etc.,

In this programme the knowledge of Microbiology emphasizing distribution, morphology and 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.

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

(NAAC Accredited "A" college with pontential for Excellence)

DEPARTMENT OF HISTORY (2021-2022)

Program Specific Outcomes Department of History

PS01. Understand background of our religion, customs institutions, administration and so on.

PSO2. Understand the present existing social, political, religious and economic conditions of the people.

PSO3. Analyze relationship between the past and the present is lively presented in the history.

PSO4. Develop practical skills helpful in the study and understanding of historical events.

D.V.V.N. PRASAD
HOD of History
S.V.K.P & Dr.K.S.Raju A & S College (A)
Penugonda, W.G.Dist.

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

Naac Accredited "A" College with Potential for Excellence

DEPATMENT OF ECONOMICS

Programme Specific Outcomes (P.S.Os)

PO1: To able to Understand basic concepts of economics.

PO2: To able to analyze economic behavior in practice.

PO3: Understand the economic way of thinking.

PO4: The ability to analyze historical and current events from an economic perspective.

PO5: The ability to write clearly expressing an economic point of view.

PO6: Be exposed to alternative approaches to economic problems through exposure to Course work in allied fields.

PO7: To create students ability to suggest of the various economic problems.

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

DEPATMENT OF POLITICS

Program Specific Outcomes

For the Academic Year 2022-23

Program Specific outcomes

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,

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

PROGRAM SPECIFIC OUTCOMES

B.Com (General & 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.

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

PROGRAMME SPECIFIC OUTCOMES

B.Com (General & 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

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DEPARTMENT OF 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)
DEPARTMENT OF MANAGEMENT STUDIES

MBA SPECIFIC PROGRAMME OUT COMES

FINANCIAL MANAGEMENT

1. Analyze the financial performance of an organization and apply various tools that aid in decision making.
2. To enable the students to apply the knowledge of Accounting standards, financial analytical tools and costing techniques, etc.
3. The students will be able to identify the relevance of financing, investing and dividend decisions and impact the growth of the form.
4. The students are able to enhance their knowledge on various financial markets and services.
5. To analyze and understand the financial perspective of risk management in a broader contest.

MARKETING MANAGEMENT

1. To understand the basic concepts of marketing and marketing environment.
2. Develops knowledge about marketing mix concept in the organization.
3. To understand the diverse set of marketing challenges of product concepts.
4. To evaluate integrated marketing communication system.
5. To identify various pricing concepts and understand different modes of channel of distribution systems.

HUMAN RESOURCE MANAGEMENT

1. To gain knowledge of various HR functions
2. To understand and design of recruitment and selection process in the organization.
3. To know the performance appraisal system, its process and review analysis.
4. To understand of training and development concepts in the organization.
5. To know the legal knowledge for employee in the real time work environment.

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

Re-accredited by NAAC with 'A' grade
(An Autonomous College Affiliated to Adikavi Nannaya University)

PENUGONDA – 534320, W. G. DIST., A.P.

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

I SEMESTER

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)

Program Specific Outcomes (P.S.O)

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