S.V.K.P. & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE (A)
PENUGONDA – 534 320 W.G.Dist.

PROGRAMME SPECIFIC OUTCOMES

2023-24

S. No.	Programme / Combination	Programme Specific Outcomes (PSOs)
1	**B.A (HEP)**	PSO1. Understand the basic themes, concepts, chronology and the Scope of Indian History. PSO2. Acquaint with range of issues related to Indian History that span distinct eras. PSO3. Understand the history of countries other than India with comparative approach. PSO4. Think and argue historically and critically in writing and discussion. PSO5. Prepare for various types of Competitive Examinations PSO6. Critically recognize the Social, Political, Economic and Cultural aspects of History PSO7: To able to Understand basic concepts of economics. PSO8: To able to analyze economic behavior in practice. PSO9: Understand the economic way of thinking. PSO4: The ability to analyze historical and current events from an economic perspective. PSO10: The ability to write clearly expressing an economic point of view. PSO11: Be exposed to alternative approaches to economic problems through exposure to Course work in allied fields. PSO12: To create students ability to suggest of the various economic problems. PSO13: To understand basic concepts in Political Science. PSO14: To know the complementarities between Political Science and English Literature as majority of political thinking and writing is from the West and there is synergy in literature between the East and the West. PSO15: It is also important for students living in countries with highly open Economics to understand the important links connecting foreign Economics the anatomy of inflation and unemployment has been studied.
2	**B.Com (General)**	PSO1: Students will gain through subject skills within various disciplines of commerce, business, accounting, economics, banking, insurance finance and auditing. PSO2: Students will have a thorough learning and

		application of accounting standards in the context of contemporary corporate system and legislation. PSO3: The course focuses on in-depth knowledge of laws relating to consumers, employees, tax and companies. PSO4: Students will acquire the skills for analyzing and interpreting financial statements which will help them in taking financial decisions for organizations. PSO5: Learns will be able to recognize features ad roles of businessmen, entrepreneur, managers and consultants, who will help them to possess knowledge and other soft skills required for critical decision making. PSO6: 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.
3	**B.Com (Computer Applications)**	PSO1: Students will gain through subject skills within various disciplines of commerce, business, accounting, economics, banking, insurance finance and auditing. PSO2: Students will have a thorough learning and application of accounting standards in the context of contemporary corporate system and legislation. PSO3: The course focuses on in-depth knowledge of laws relating to consumers, employees, tax and companies. PSO4: Students will acquire the skills for analyzing and interpreting financial statements which will help them in taking financial decisions for organizations. PSO5: Learns will be able to recognize features ad roles of businessmen, entrepreneur, managers and consultants, who will help them to possess knowledge and other soft skills required for critical decision making. PSO6: 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.
4	**B.Sc. M.P.C.**	PSO1: Distinguish between linear, nonlinear, partial and ordinary differential equations. PSO2: Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems. PSO3: Identify, formulate and solve physics problems. PSO4: Design and conduct experiments analyze results and interpret data. PSO5: Apply knowledge of physics in a different stream of science and to communicate effectively. PSO6: Ability to use the technologies, skills and modern physical tools in a real-world application. PSO7: Engage in life-long learning. PSO8: Develop research-oriented skills. PSO9: Gain the knowledge of Chemistry through theory

		and practical. PSO10: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions. PSO11: Identify chemical formulae and solve numerical problems. PSO12: Use modern chemical tools, Models, Chem-draw, Charts and Equipments. PSO13: Know structure-activity relationship. PSO14: Understand good laboratory practices and safety. PSO15: Develop research-oriented skills. PSO16: Make aware and handle the sophisticated instruments/equipments.
5	**B.Sc. M.P.E.**	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: Identify, formulate and solve physics problems. PSO4: Design and conduct experiments analyze results and interpret data. PSO5: Apply knowledge of physics in a different stream of science and to communicate effectively. PSO6: Ability to use the technologies, skills and modern physical tools in a real-world application. PSO7: Engage in life-long learning. PSO8: Develop research-oriented skills. PSO9: Acquire Technical Skills required for the chip design and educating the students in the technical aspects of electronics. PSO10: Obtain theoretical and practical knowledge in construction of various circuits in various techniques with wide applications PSO11: Knowledge in electronic concepts relates to other disciplines of science. PSo12: To analyze, design and develop solutions for the real time problems and to apply the technical Knowledge for developing quality products for Electronics and Communication based Industry. PSO13: An ability to make use of acquired technical knowledge to get employed in the field of Electronics and Communication and also to become successful Entrepreneur. PSO14: To adapt to emerging Information and Communication technologies and to develop innovative ideas and solutions in RF & Communication, Networking, Embedded Systems, and VLSI.
6	**B.Sc. M.E.Cs**	PSO1: Distinguish between linear, nonlinear, partial and ordinary differential equations. PSO2: Evaluate line, surface and volume integrates using

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		algorithm.
7	**B.Sc. M.P.Cs**	PSO1: Distinguish between linear, nonlinear, partial and ordinary differential equations. PSO2: Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems. PSO3: Identify, formulate and solve physics problems. PSO4: Design and conduct experiments analyze results and interpret data. PSO5: Apply knowledge of physics in a different stream of science and to communicate effectively. PSO6: Ability to use the technologies, skills and modern physical tools in a real-world application. PSO7: Engage in life-long learning. PSO8: Develop research-oriented skills. PSO9: Understand the concepts of basic electronic components, networks, communication systems, microprocessors and micro controllers, algorithms, C language, Arduino programming, Networking, cloud and Big Data. PSO10: Analyze the concepts of mathematics, Electronics and computer Networks and able touse them in solving real world problems. PSO11: Acquire the skills to use various electronic components, microprocessor, microcontroller, Arduino, Raspberry PI and simulators. PSO12: Ability to interlink the skills developed and gets an aptitude to address the problems in smart home design, smart vehicles, smart sensors in various fields. PSO13: Acquire skills in areas related to their specialization are within the disciplinary / subject area of Electronics. PSO14: Recognize the importance of modeling simulation and computing and the role of approximation and mathematical approaches to describing the electronic world. PSO15: 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. PSO16: Students will be able to apply mathematical and computing theoretical concepts I solution of common computing application, such as computing the order of an algorithm.
8	**B.Sc. M.C.Cs**	PSO1: Distinguish between linear, nonlinear, partial and ordinary differential equations. PSO2: Evaluate line, surface and volume integrates using Divergence, Green and Stokes theorems. PSO3: Gain the knowledge of Chemistry through theory and practical.

		PSO4: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions. PSO5: Identify chemical formulae and solve numerical problems. PSO6: Use modern chemical tools, Models, Chem-draw, Charts and Equipments. PSO7: Know structure-activity relationship. PSO8: Understand good laboratory practices and safety. PSO9: Develop research-oriented skills. PSO10: Make aware and handle the sophisticated instruments/equipments. PSO9: Understand the concepts of basic electronic components, networks, communication systems, microprocessors and micro controllers, algorithms, C language, Arduino programming, Networking, cloud and Big Data. PSO10: Analyse the concepts of mathematics, Electronics and computer Networks and able touse them in solving real world problems. PSO11: Acquire the skills to use various electronic components, microprocessor, microcontroller, Arduino, Raspberry PI and simulators. PSO12: Ability to interlink the skills developed and gets an aptitude to address the problems in smart home design, smart vehicles, smart sensors in various fields. PSO13: Acquire skills in areas related to their specialization are within the disciplinary / subject area of Electronics. PSO14: Recognize the importance of modeling simulation and computing and the role of approximation and mathematical approaches to describing the electronic world. PSO15: 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. PSO16: Students will be able to apply mathematical and computing theoretical concepts I solution of common computing application, such as computing the order of an algorithm.
9	**B.Sc. B.Z.C**	PSO1: Expose themselves to the diversity amongst life forms. PSO2: Make aware of natural resources and environment and the importance of conserving it. PSO3: Identify and list out common animals. PSO4: Explain various physiological changes in our bodies. PSO5: Gain the knowledge of Chemistry through theory

		and practical. PSO6: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions. PSO7: Identify chemical formulae and solve numerical problems. PSO8: Use modern chemical tools, Models, Chem-draw, Charts and Equipments. PSO9: Know structure-activity relationship. PSO10: Understand good laboratory practices and safety. PSO11: Develop research-oriented skills. PSO12: Make aware and handle the sophisticated instruments/equipments.
10	**B.Sc. C.Z.BT**	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. PSO9: Identify and list out common animals. PSO10: Explain various physiological changes in our bodies. PSO11: 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. PSO12: Biotechnology being a multidisciplinary field is in great demand because of its various applications in the field of research and development.
11	**B.Sc. MBBT**	PSO1: In this programme the knowledge of Microbiology emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. PSO2: The sophomore level material covering immunology, virology and epidemiology and DNA technology. PSO3: In this programme the knowledge of Biochemistry presents the chemical reactions and metabolic functions in the living system and their regulations. PSO4: The concept of Basic Structure and metabolism of Bio molecules. PSO5: 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. PSO6: Biotechnology being a multidisciplinary field is in great demand because of its various applications in the field of research and development.
12	**B.C.A**	PSO1: Disciplinary knowledge: Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer based systems of varying complexity. PO2: Scientific reasoning/ Problem analysis: Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of computer science. PSO3: Problem solving: Able to provide software solutions for complex scientific and business related problems or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations. PSO4: Environment and sustainability: Understand the impact of software solutions in environmental and societal context and strive for sustainable development. PSO5: Modern tool usage: Use contemporary techniques, skills and tools necessary for integrated solutions. PSO6: Ethics: Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude. PSO7: Cooperation / Team Work: Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.
13	**MCA**	PSO1: Apply the knowledge of computer application to find solutions for real-lifeapplication PSO2: Ability to analyze, design, develop and maintain the software application with latesttechnologies 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. PSO5: Apply the appropriate Software Engineering practices to deliver a Quality product catering to the needs of Industry and Society at a large.
14	**MBA**	PSO 1. Analyze the financial performance of an organization and apply various tools that aid in decision making. PSO 2. To enable the students to apply the knowledge of accounting standards, financial analytical tools and costing techniques, etc.

		PSO 3. The students will be able to identify the relevance of financing, investing and dividend decisions and impact the growth of the form. PSO 4. The students are able to enhance their knowledge on various financial markets and services. PSO 5. To analyze and understand the financial perspective of risk management in a broader contest. PSO 6. To understand the basic concepts of marketing and marketing environment. PSO 7. Develops knowledge about marketing mix concept in the organization. PSO 8. To understand the diverse set of marketing challenges of product concepts. PSO 9. To evaluate integrated marketing communication system. PSO10 To identify various pricing concepts and understand different modes of channel of distribution systems. PSO 11. To gain knowledge of various HR functions PSO 12. To understand and design of recruitment and selection process in the organization. PSO 13. To know the performance appraisal system, its process and review analysis. PSO 14. To understand of training and development concepts in the organization. PSO 15. To know the legal knowledge for employee in the real time work environment.
15	**M.Sc. Organic Chemistry**	PSO 1: Applying fundamental and advanced concepts of inorganic, organic and physical chemistry for chemical analysis. PSO 2: Students will be able to gain knowledge in new areas of research in both chemistry and allied fields of science and technology. PSO 3: Establishing synthetic roots for biologically active molecules, quality assessment by chromatographic methods and structural prediction by spectroscopic methods PSO 4: Isolation of natural compounds, study of activity and developing synthetic methods for laboratory preparations PSO 5: Students will gain sound knowledge on various theoretical concepts, quality control aspects and instrumentation techniques. PSO 6: Chemistry is only the subject to explain all events occurred in universe through micro level and students will get good opportunities in various research institutes and industries.
16	**M.Sc. Botany**	PSO1: Understand the nature and basic concepts of cell biology, Biochemistry, Taxonomy and ecology.

		PSO2: Analyze 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.
17	**M.Sc. Zoology**	PSO1: 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 Radio labeling techniques, media preparation, sterilization, inoculation growth monitoring microbial assays. PSO2: 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: Chemical foundations of biology, classification of amino acids, Proteins, Carbohydrates, Lipids, fatty acids and Nucleic acids PSO4: 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: Development of theoretical and Practical knowledge in Spectrophotometer, Centrifugation, Paper chromatography, Electrophoresis, pH Meter, Microscopy and tissue preparation for SEM & TEM procedure. PSO6: 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.