KRR GOVERNMENT ARTS & SCIENCE COLLEGE

Kodad– 508 206, Suryapet District, Telangana

Programme Outcomes (POs)

B.Com(General) & Computer Applications

- **PO1:** Gain conceptual knowledge in various disciplines of Commerce, Finance, Management and Information Technology which can be applied in real life situation.
- **PO2:**Acquire Global Competencies through comprehensive Curricular and Co-Curricular programs with practical skills and also enable the students face modern day challenges in Commerce and Business.
- **PO3:**Apply critical thinking which improves cognitive skills and logical decision making as business leaders.
- **PO4:** Apply IT knowledge and skills for efficient and effective business processes and develop innovative methods for competitive advantage.
- **PO5:** Develops Communication Skills, Interpersonal and Soft Skills which enable the students interact in a more constructive and productive manner.
- **PO6:** Be an effective team leader to lead a group with conflicting personalities and move together towards a common goal.
- **PO7:** Equip entrepreneurship skills whether to develop own business idea from concept to reality or learn the tricks of managing an innovative business in today's environment.
- **PO8:** Develops Ethical, Moral and Human Values and contribute to the wellbeing of the society.
- **PO9:**Develops an attitude to be a lifelong learner both personally and professionally to succeed in dynamic environment.

B.Sc. (Mathematics, Physics, Chemistry /Computer Science)

- **PO1:** Acquire knowledge in Physical Sciences with a thrust on fundamental principles and theories related to various scientific phenomena and their relevance in day-to-day life.
- **PO2:** Attain practical knowledge through hands-on training and project experience to meet the industrial needs.
- **PO3:** Develop critical thinking skills to identify, analyze and solve problems of their core areas using modern tools.
- **PO4:** To enhance arithmetic skills and logical reasoning for better.
- **PO5:** Develop lifelong learning skills with interdisciplinary approach towards sustainable development.
- **PO6:** Ability to communicate effectively the comprehended scientific data and knowledge, write effective reports, design documentation and make effective presentations.
- **PO7:** Apply ethical, moral and social values in personal and professional life leading to highly cultured and civilized society.
- **PO8:** Ability to work effectively as an individual or as a member or Team leader in diverse teams and in multidisciplinary environments.

Bachelor of Arts (B.A)

- **PO-1** Students develop a broader outlook towards the society
- **PO-2** Inculcates critical thinking, administrative acumen and effective leadership qualities
- **PO-3** Understand history to create a better future
- **PO-4** Knowledge about socio-economic problemshelp students to explore ways to overcome them
- **PO-5** On the whole it moulds a student into acitizen. With societal responsibility
- **PO-5** The programme will provide a well-structured relevant curricula for the students which will prepare the graduates for employment and higher studies.

- **PO-6** The programme will also provide the students a well-founded education in Economics.
- **PO-7** The teaching of various courses in Economics will help the students to acquire in-depth knowledge and understanding of the functioning and performance of the Indian and other global economies.
- **PO-8** Students will be able to develop their understanding of core economic terms, concepts and theories.
- **PO-9** They will be encouraged to understand the basic economic principles and will also learn about their applications to a wide range of real-world issues.
- **PO-10** Students will learn how economic activities like production, consumption, distribution etc. are organized by the markets.
- **PO-11** They will also acquire knowledge about national income, employment, inflation, deflation, business cycle, monetary and fiscal policy and the banking system.
- **PO-12** Students will acquire analytical and reasoning skill and will be able to predict about possible economic outcomes based on economic theories. Students will be equipped with quantitative analytical skills with the help of which they will be able to collect, tabulate, present and analyze data to support economic decision making.

Programme Specific Outcomes (PSOs)

B.Com(General) & Computer Applications

- **PSO1:** Inculcates practical skills for analysis and interpretation of financial data to understand financial health of an organization and ensure that resources are being used to achieve the organizational objectives.
- **PSO2:** Cater to the manpower needs of companies in the field of Accounting, Finance, Taxation, Business Law, Auditing and Management.
- **PSO3:** Develops entrepreneurial skills to make them innovative leaders and entrepreneurs.
- **PSO4:** Students gain ample knowledge in Information technology and develop programming skills.
- **PSO5:** Students are enabled with skills required for developing software applications.
- **PSO6:** Develops entrepreneurial skills to make them innovative leaders and entrepreneurs.
- **PSO7:** Cater to the manpower needs of companies in the field of Accounting, Finance, Taxation, Business Law, Auditing and Management.

Opportunities in higher Studies / Careers

- ***Higher Studies*** **:** M.Com/ MBA/ CA/ CS/ ICWA/ CFA/CMA
- ***Employment Opportunities*** **:** Graduates have wide scope in the fields of Finance, Banking, Insurance, Accounting and Research Firms etc.
- ***Designations*** **:** Financial Advisor/ Investment Banking Associate/ Marketing Executive/ Financial Analyst/ Investment Sales Associate/Insurance Agent/ Security Analyst/ Stock Broker/ Accountant/ Business Analyst/Front Office Executive/ Public Relations Officer/ Executives in MNC's etc.
- ***Banker*** : Cashier/ Clerk/ Probationary Officer Grade I & II/ Assistant Manager/Financial Analyst/ Marketing Officer etc.
- **IT & Software :** Database Administrator/ Network Administrator/System Administrator/ Mobile Application Developer/Computer Application Specialist /Computer Programmer/ Application Developer Informatics Analyst etc.

B.Sc. MPCS (Mathematics, Physics, Computer Science)

- **PSO1:** Students develop problem solving skills and methods and develop logical tools and models used to solve various real life problems.
- **PSO2:** Students acquire knowledge of traditional and modern techniques of solving algebraic, transcendental equations, differential and integral equations, which have applications in many disciplines.
- **PSO3:** The students attain sound knowledge in the areas of Mechanics, Thermal Physics, Waves and oscillations, optics, electromagnetism, modern physics, solid-state physics for pursing higher education and research.
- **PSO4:** Ability to design and develop software applications to address real time problems using Programming languages, Databases, Operating Systems, and Computer Network Concepts.

Opportunities in higher Studies / Careers

- ***Higher Studies*** **:** M.Sc. Mathematics, M.Sc. Physics, M.Sc. Computer Science / MBA
- ***Employment Opportunities*** **:** Graduates have wide scope in the fields of Science Banking, DBMS, and Research Firms etc.
- ***Designations*** **:** Security Analyst/ Front Office Executive/ Public Relations Officer/ Executives in MNC's etc.
- ***Banker*** : Cashier/ Clerk/ Probationary Officer / Assistant Manager/Financial Analyst/ Marketing Officer etc.
- **IT & Software :** Database Administrator/ Network Administrator/System Administrator/ Mobile Application Developer/Computer Application Specialist /Computer Programmer/ Application Developer Informatics Analyst etc.

B.Sc. BT/BZC (Biotechnology / Botany, Zoology, Chemistry)

On successful completion of the Programme,

- **PSO1:** The students will be well aware of different plant groups and different branches of Plant Sciences
- **PSO2:** They will learn the techniques of studying plants- basic techniques as well as advance techniques.
- **PSO3:** The students will also become aware of physiology and metabolism of different plant groups and there uses for human welfare. v
- **PSO3:** They become skilled in modern advance branches of biochemistry, cytogenetics, molecular biology etc. and at the same time they develop the skill of traditional branches of botany like taxonomy, ecology, genetics, physiology, palynology, anatomy etc.
- **PSO4:** The basic techniques of plant research like biostatistics, spectrometry, chromatography, microscopy, bioinformatics are also learned in the course. v
- **PSO5:** Students also learn to write project reports by writing reports on field visits.
- **PSO6:** The course also helps in making a student responsible citizen well aware of need of environment conservation and ways to do so. As throughout the course, they are thought the importance of plants in human life and importance of plant resources and their conservation in situ (conservation ecology) as well as in vivo(tissue culture and gardens).

Opportunities in higher Studies / Careers

- ***Higher Studies*** **:** M.Sc. Biotechnology, M.Sc. Botany, M.Sc. Zoology / MBA
- ***Employment Opportunities*** **:** Graduates have wide scope in the fields of Science, and Research Firms etc.

Bachelor of Arts (B.A.)- (EHP, HEPA, etc)

- **PSO 1:** Provides critical thinking, administrative acumen and moulds the student into an ideal citizen.
- **PSO 2:** Understands the impact of economic/warfare/literary policies of various rulers on the society
- **PSO 3:** Analyse economic theories and concepts to tackle problems like poverty unemployment and to understand market trends.
- **PSO 4:** The combination lays a strong foundation and prepares the learner for Post-Graduation in respective disciplines

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Course Outcomes

Botany

- Graduates will develop the basic knowledge needed to make substantial contributions to the conservation and sustainable exploitation of the planet
- Graduates will learn the role of genetics that shape the future of medicine, health care and food production
- Graduates will identify and analyze the morphological and anatomical features of plants, plant structures and learn plant function and plant evolutionary history
- Graduates will gather, critically assess and utilize primary scientific literature to research a topic
- Graduates will use interdisciplinary approaches to work on biological problems
- Graduates will work safely and effectively in the laboratory to generate reproducible and reliable results.
- Graduates will acquire knowledge of various techniques of breeding economically important crops

Zoology & Biotechnology

The students will be able to

- To understand diversity of various life forms of invertebrates.
- To investigate invertebrates in laboratory & classify them easily
- To learn the functioning of the ecosystem.
- To understand the diversity of various life forms and threats posed
- To understand the distribution of fauna in different regions of the earth
- Acquire in-depth knowledge about vertebrates anatomy
- To understand the Structure and function of various cell organelles
- To understand the concept of heredity
- To understand the classification, function and metabolism of carbohydrates, proteins, Lipids
- To be able to identify fishes, prawns, silkworm stages
- Imparts in depth knowledge of tissues, cells and molecules involved in host defence mechanisms
- Understanding of immune mechanisms in disease control, vaccination, process of immune interactions.
- To culture animal cells in artificial media
- Use in recombinant DNA technology, genetic manipulations and in a variety of industrial processes
- Understands the Aquatic environment CO 2) Understands the physical and chemical characteristics of water bodies
- Knows about the legal provisions for protection of water bodies from pollution

Chemistry

- Human Values, Ethics and Social Responsibilities in the context of learning Chemistry
- Communicative Skills and the Creative mind towards learning chemistry
- Positive approach towards Environment and Ecology from the Chemistry perspective
- Critical thinking and the Analytical mind, Students develop for the indepth knowledge in Chemistry
- The relevance of extension of Chemistry in the social context for solving social issues
- Employability Skills shall enable the students to find jobs in core-chemistry fields
- Entrepreneurial Skills are developed in students so as to make them start their own industries / business in core-chemistry fields
- Analytical or Experimental Skills make the students capable of doing research tasks in the field of chemistry.

Physics

The undergraduates will deepen their-

- Conceptual Knowledge
- Awareness on the impact of Physics
- Observational, measuring and computational techniques
- Problem analyzing and solving skill; understanding and logical thinking, reasoning and troubleshooting
- Ethical and social values, leadership and entrepreneurial skills
- Acquire recent knowledge towards research
- Development, entrepreneurship and employability skills
- Explore problem solving skills

- Adopt new technology
- Acquire projects and model designing skills
- Promote experimental skills
- Transform education towards social relevance

Mathematics

This programme provides opportunities for students to develop

- Critical and Analytical Thinking Skills
- Problem Skills
- Ethics and Social Responsibility
- Entrepreneurial Skills
- Computational and Data Analysis skills
- Aptitude skills that will help to take up research in pure and applied mathematics
- Reasoning skills required to learn advance mathematics
- Probing attitude and a search for deeper knowledge in science
- The relevance and applications of Mathematics in scientific phenomenon
- Positive approach towards Higher Education in Mathematics
- Employability Skills that will enable the students to explore career in Mathematics.

Computer Science

This programme provides opportunities for students to develop

- Possess basic knowledge on core concepts of Computer Science.
- Ability to solve problems using programming languages and software tools.
- Capable of analyzing, designing, developing, testing and implementing software systems.
- Attain holistic knowledge in Mathematics, Electronics, Computer Science courses.
- Possess social and ethical values.
- Empowered with analytical mind and critical thinking.
- Ability to communicate the technical aspects of systems with peers and customers.
- Possess employability and entrepreneurship skills.

Computer Applications

This programme provides opportunities for students to develop

- Possess basic knowledge on core concepts of Computer Science.
- Ability to solve problems using programming languages and software tools.
- Critical and Analytical Thinking Skills.
- Knowledge and Employability Enhancement.
- Information Technology/Techniques.
- Ethics and Social Responsibility.
- Entrepreneurial Skills and Leadership Skills.
- Research Orientation and Internship and Practical Exposure.
- Special Accounting and Tally knowledge
- Entrepreneurial Skills and Leadership Skills
- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing based systems.
- Apply contextual knowledge to assess professional, legal, health, social and cultural issues during profession practice.
- Apply ethical principles and responsibilities during professional practice.
- Engage in independent and life-long learning for continued professional development.

Commerce

This programme provides opportunities for students to develop

- Critical and Analytical Skills.
- Knowledge on the pertinent concepts, theories of the programme.
- Ethical and Social Responsibilities
- Skills required to be a successful entrepreneurs.
- Internship and Practical Exposure will make the students know and understand the practical nuances in the business and industrial practices.

Economics

The students will be able to

- Appreciate the importance of the subject Economics.
- Study the various terms and concepts in Economics.
- Study various principles and theories in Economics.
- Evaluate the programmes and policies of the government.
- Know various current economic issues and problems to identify solution.
- Study the quantitative techniques and its applications in Economics.
- Study research methodologies in Economics.
- Study global economic issues like globalization, privatization and liberalization and identify solutions.

History

After completion

- The students will be able to explore and effectively use historical tools in reconstructing the remote past of ancient Indian pre and proto history.
- The course will also train the students to analyse various stages of evolution of human cultures and the belief systems in the proto-history period
- They will be able to understand the changes and transformations in polity, economy and society in early India and the linkages developed through contacts with the outside world
- The students will be trained to be ethically and socially responsible
- The Leadership skill of students will be enhanced
- The Critical and Analytical thinking of the students will be enhanced
- The students will be in the position to understand the problems in the field
- The team spirit in the students will be boosted
- Marketing and product development skill of the students will be polished
- Entrepreneur skill will be imparted to the students

Political Science

The students will be able

- To understand the nature scope of political science .
- To understand concept state nation & civil society .
- To understand the form of govt in various countries & their working pattern .
- To understand Structure of role of legislature executive & judiciary.
- To understand the role of election commission & voting behaviour.
- To gain protection & rights by statutory commissions.
- To understand international security.
- To appreciate foreign policy their determinant
- Inculcate leadership qualities, team-spirit as well as a sense of individuality in the learners.

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