



**SR & BGNR GOVT. ARTS & SCIENCE COLLEGE**  
**AUTONOMOUS**  
**KHAMMAM – 507002**



**OUR MOTTO: "ENTER TO LEARN, LEAVE TO SERVE"**



## **PROGRAMME SPECIFIC OUTCOMES**

## **Department of English**

### **Programme Specific Outcomes:-**

1. 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.
2. They can express a thorough command of English and its linguistic Structures.
3. They can apply critical frameworks to analyze the linguistic, cultural and historical background of texts written in English.
4. They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.
5. To enable students to understand the passage by silent reading.
6. To learn phonetics and proper intonation.

## **Department of Telugu**

### **Programme Specific Outcomes:-**

1. Empower the knowledge of Telugu Language and Literature. Improve writing skills like short stories, stories, novels etc

## **Department of Mathematics**

### **Programme Specific Outcomes:**

1. Think in a critical manner.
2. Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
3. Formulate and develop mathematical arguments in a logical manner.
4. Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given courses.
5. Understand, formulate and use quantitative models arising in social science, Business and other contexts.

## **DEPARTMENT OF PHYSICS**

### **Programme Specific Outcomes (PSOs):**

By the end of the course, the students will be able to:

PSO1: Students are expected to acquire knowledge in physics, including the major premises of classical mechanics, quantum mechanics, electromagnetic theory, electronics, optics, special theory of relativity and modern physics.

PSO2: Students are also expected to develop written and oral communication skills in communicating physics-related topics.

PSO3: Students should learn how to design and conduct an experiment (or series of experiments) demonstrating their understanding of the scientific method and processes. Not only that they are expected to have an understanding of the analytical methods required to interpret and analyze results and draw conclusions as supported by their data.

PSO4: Students will develop the proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation of such data.

PSO5: Students will learn the applications of numerical techniques for modeling physical systems for which analytical methods are inappropriate or of limited utility.

PSO6: Students will realize and develop an understanding of the impact of physics and science on society.

PSO7: Apply conceptual understanding of the physics to general real-world situations.

PSO8: Describe the methodology of science and the relationship between observation and theory.

PSO9: Learn to minimize contributing variables and recognize the limitations of equipment.

PSO10: Discover of physics concepts in other disciplines such as mathematics, computer science, engineering, and chemistry.

PSO11: Develop the following experimental tools: Numerically model simple physical systems using Euler's method, curve fitting, and error analysis.

PSO12: Analyze physical problems and develop correct solutions using natural laws.

## **Department of Botany**

### **Programme Specific Outcomes:**

1. Understanding phylogenetic relationships of plants.
2. Identification of plants becomes easier.
3. Students will apply statistical method to interpret their data collected from various fields
4. Students will be able to explain plant development at molecular level, development of plant, plant anatomy, photosynthesis and life cycle of plants.
5. Students will be able to develop practical skill in experimental techniques.

## **Department of Zoology**

### **Programme Specific Outcomes:**

1. The specific learning goals for General Zoology are to provide students with a working knowledge of fundamental principles in zoology that will provide a foundation for their later advanced course work in more specific biological subjects.
2. As General Zoology is a basic course, students will become familiar with animal classification schemes and associated taxonomic group diagnostic characteristics as well as developing an understanding of and ability to apply basic zoological principles.
3. The laboratory and lecture sections of the course are highly integrated and directed toward teaching students the principles of animal evolution, classification, form and function.

## **Department Of Chemistry**

### **Programme specific outcomes:**

By the end of the course, the students will be able to:

1. Join school as Chemistry teacher.
2. Prepare for competitive exams like MPSC,UPSC, GATE,CAT.
3. Analyze and grasp abstract ideas to apply them to important practical problems.
4. Develop strong analytical skills and a broad-based background in the Chemical sciences to join Indian industry.

## **Department of History**

### **Programme Specific Outcomes:**

1. The students obtain thorough knowledge of facts and figures of the past and make the learner take in the essence of that through multidisciplinary approach.
2. It inculcates the learners into the intellectual forum through the study of history.
3. It builds a sense of nationalism to enable the student community to face the onslaught of communalism and casteism.
4. Employment Areas include, Archaeology & archives, UPSC, TSPSC, Historians parks, Research centre, Journalism, Museums, Preservation departments, Radio jock, Curator and guide, Documentation specialist, Historian, Online search specialist, Teacher, Writer and Editor.
5. Advance Course In B.A. History are M.A. (History), M.Phil. (History) and Ph.D. (History).

## **Department of Economics**

### **Programme Specific Outcomes:**

- a. The students will be familiarized with the broad contours of Economics and its methodologies, tools and its analysis.
- b. Students will be able to analyze the economics and institutional arrangements of specific regions, countries, organizations, localities, industries or firms.
- c. Students will develop a scientific approach towards varied branches of economics like modern banking, economic development and planning, micro economics etc

d. Students will be able to evaluate economic issues and public policy by using economic models or data analysis while identifying underlying assumptions of the model(s) and limitations

e. Students will be able to formulate informed opinions on policy issues and recognize the validity of opposing viewpoints.

f. Students will be able to effectively communicate and debate economic ideas and policies.

## **Department Of Political Science**

### **Programme Specific Outcomes:**

1) Knowledge About Political System Of The Nation .

2) Study Of National And International

Political Affairs

3) Study From Competitive Examination

Point Of View

4) Understanding The Govt Mechanism, Its Functions , Duties And

Responsibilities

5) Creating Appropriate And Efficient Political Leaders

6) Getting Knowledge Of Public Law

7) Getting Knowledge Of Constitution Of India

## **Department Of Public Administration**

### **Programme Specific Outcomes:**

- 1) Knowledge about political system of the nation
- 2) study of Public policy.
- 3) Study from competitive examination point of view.
- 4) Understanding the govt mechanisam, its functions ,duties and responsibilities
- 6) Getting knowledge of public law
- 7) Getting knowledge of constitution of india

## **Department Of Commerce**

### **Programme Specific Outcomes:**

The students can get the knowledge, skills and attitudes during the end of the B.com degree course.

1. By goodness of the preparation they can turn into a Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employments and so on.
2. Students will prove themselves in different professional exams like C.A., C S, CMA, TSPSC, UPSC. .
3. The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
4. Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.
5. Students can also get the practical skills to work as accountant, audit assistant, tax

consultant, and computer operator. As well as other financial supporting services.

6. Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
7. Students will be able to do their higher education and can make research in the field of finance and commerce.

## **Department Of Computer Science &**

### **Applications**

#### **Programme Specific Outcome:-**

The students can get the knowledge and skills during the end of the degree course.

1. By goodness of the preparation they can turn into a Banking jobs, Data Entry Operator, Clerical Jobs, Government as well as Private employments and so on.
2. Students will prove themselves in different professional exams like C.A., C S, CMA, TSPSC, UPSC. .
3. Students will be able to do their higher education and can make research in the field of Computer Science and Applications.

## **BBA (Bachelor of Business Administration)**

#### **PROGRAM SPECIFIC OUTCOMES:**

BBA (Bachelor of Business Administration)

PSO1 Ability to define analyse the solutions for different business problems and using logical reasoning patterns for evaluating information, materials and data for practical implementation

PSO2 Provides verbal, reasoning ,data interpretation, Quantitative and communication skill to solve specific business problems and decision making

PSO3 Apply ethical principles and commitment towards professional ethics and responsibility

## **DEPARTMENT OF BIOTECHNOLOGY**

### **PROGRAMME SPECIFIC OUTCOMES (PSO)**

#### **Employment opportunities:**

Students who completed their graduation in biotechnology can avail employment in R&D institutions, companies such as Reddy laboratories (Hyderabad), Bio-con (Bangalore), Santa biotech (Hyderabad), Indian Immunologicals (Hyderabad), invitro fertility centers etc. They can also join as research assistants in CSIR and DBT funded research institutes. They can also pursue Msc biotechnology, further avail JRF programmes by CSIR, DBT and ICMR to complete their PhD and can also join as academicians.

#### **Self employment opportunities**

India is one among the most populated countries, the upcoming decades demand for food security and employment opportunities. In India unemployment is one of the causes of poverty. Hence developing self employment skills help in food security and resolves unemployment in the country. Agri-biotechnology creates excellent opportunity for resolving unemployment and food security in the country. The course enhances the self employment/entrepreneur skills among the students in the following fields.

Small scale Biofertilizers/vermicompost production units

Mushroom cultivation units.

Genetically improved fish tilapia (GIFT) culture by RAS method.

Aquaponics- cultivation of vegetables/animal green fodder.

Country chicken/quail bird farming - small scale hatcheries etc.