



GOVERNMENT DEGREE COLLEGE, GARLA

**Department of Computer Science and
Applications**

Profile

About Department

Government degree College Garla introduced Computer Applications programs to meet the global needs of industrial world. With this aim, Bachelor of Commerce is offered in 2018. This Program aim to attract bright students throughout the region for quality education at under-graduate level and designed to produce IT professionals with latest technical and professional skills to meet the requirements of the industry.

- Computers are now affecting every sphere of human activity and bringing about many changes in Industries, Education fields like Medicine, Scientific Research, Law and Social science.

- A foundation of knowledge for a life time of learning, computers have become a good companion to man.

VISION

To attain excellence in various fields of Computer Science and Applications in Education & Industry.

MISSION

- ❖ Motivate students in continuous learning to enhance their technical, communicational and managerial skills.
- ❖ Facilitate effective learning environment to the students.
- ❖ Providing practical training related to professional skills.
- ❖ To inculcate work ethics and commitment in students.

Faculty Profiles



Faculty Member

NAME : **A.RAJESH**
QUALIFICATION : M.Tech
DESIGNATION : Lecturer in Computer Applications
EXPERIENCE : 5 Years
EMAIL - ID : aletirajesh2@gmail.com

Curricular Aspects

B.Com- CA

<i>Course Title</i>	<i>HPW</i>	<i>Credits</i>
Fundamentals of Information Technology	3T+4P=7	5
Programming with C & C++	3T+4P=7	5
Fundamentals of Computers	2T	2
Relational Database Management system	3T+4P=7	5
Web Technologies	3T+4P=7	5
Ecommerce	3T+4P=7	5
Cyber Security	3T+4P=7	5

BA- CA

Course Title	HPW	Credits
Programming in C	4T+3P=7	4+1=5
Programming in C++	4T+3P=7	4+1=5
Fundamentals of Computers	2T	2
Relational Database management System	4T+3P=7	4+1=5
Multimedia systems	4T+3P=7	4+1=5
Programming in JAVA	4T+3P=7	4+1=5
Web Technologies	4T+3P=7	4+1=5

Program Educational Objectives

- Graduates of the program will become technically competent to pursue higher studies.
- Graduates of the program will utilize modern and advanced technological tools for performing Investigation, analysis and synthesis by identifying various computer solutions.
- Graduates of the program will collaborate with multi-disciplinary teams and will be able to become leaders in their organization, their profession and in society.

Program Outcomes

- Ability to apply knowledge in mathematics, Accounting and science fundamentals to solve problems.
- Ability to use a range of programming languages and tools to develop computer programs to solve problems effectively.
- Design, and analyze precise specifications of algorithms, procedures, and interaction behaviour.
- Ability to communicate effectively in both verbal and written form in industry and society.
- Ability to work in teams to build software systems and apply the technologies in various fields of Computer Science, including Mobile applications, Website development and management, databases, and computer networks.
- Ability to select appropriate techniques to tackle and solve problems in the discipline of information security management.
- Understand the basic concepts of system software, hardware and computer graphics.

Student Outcomes:

Outcome 1 - Communication

- 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.

Outcome 2 - Mathematics and Theory

- 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.

Outcome 3 - Programming

- 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.

Outcome 4 - Systems Design and Engineering

- 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

Outcome 5 - Depth of Knowledge

- 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.

Outcome 6 - Preparation for Career and/or Graduate Study

- 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.

Outcome 7: The students have an opportunity in the field of commerce

and Computer Applications

Outcome 8: B.Com. (CA) course facilitate students to go for professional Courses like CA, ICWA, etc

Outcome 9: The students are given knowledge in Income Tax and Computer Applications provides Practical knowledge in Accounting package software to the students

Course Outcomes

COURSE OUTCOMES OF B Com(COMPUTER APPLICATIONS)	
SEMESTER-I Fundamentals of Information Technology (Credits-05)	
	Fundamentals of Information Technology: To understand the basic concepts & technology of information technology and to identify issues related to information security.
CO1	Computer, basic components of computer memory management hardware parts input & output devices printer's scanners.
CO2	Binary, arithmetic number system primary storage ram & rom secondary storage devices.
CO3	Software & its needs types of s/ws programming languages system s/w application s/w & its types word excel power point presentation DBMS s/w.
CO4	Operating system & its functions assembler compiler interpreter types of os.
CO5	Data communication networking devices data transmission media modem topologies, types of networks.
SEMESTER-II PROGRAMMING WITH C & C++: (Credits-05)	
CO1	Understanding the different basic fundamental of C programming
CO2	Develop Programming logic and use of programming instructions, syntax and programme structure. Looping statements
CO3	Demonstrate use of data types, operators, keywords, functions, structures, file handling etc.
CO4	Application of Pointers, array and dynamic memory allocation functions in practice .
CO5	concepts and advantages of object oriented programming.
SEMESTER-II BASIC COMPUTER SKILLS: AEC1 (Credits-02)	
CO1	Basic applications of computer components operating computer word processing.
CO2	Using spread sheets basics of presentation software internet www web browsers.
SEMESTER-III RELATIONAL DATABASE MANAGEMENT SYSTEMS: (Credits05)	

CO1	List the different issues involved in the design and implementation of a database system. Give a Study report on the physical and logical database designs, database modeling, relational model.
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CO2	Understand and database normalization concepts and design a normalized database
CO3	Use data manipulation language to query, update, and manage a database
CO4	Develop an understanding of essential DBMS concepts such as: database security, integrity & concurrency Transaction control.
SEMESTER-IV WEB TECHNOLOGIES: (Credits-05) Paper-4	
CO1	Understand & Apply HTML(5) programming
CO2	Demonstrate dynamic webpage development using java script and DHTML&CSS
CO3	Write well-structured, easily maintained JavaScript
CO4	Demonstrate the events & event handling
CO5	Design a well formed / valid XML document
SEMESTER-V E-Commerce: (Credits-05) Paper-5	
CO1	Define and differentiate various types of Ecommerce Describe Hardware and Software
CO2	Technologies for Ecommerce. payment systems for E - commerce.
CO3	Describe the process of Selling and Marketing on web.
CO4	Define and Describe E-business and its Models.
CO5	Discuss various E business Strategies.
SEMESTER-VI CYBER SECURITY : (Credits-05) Paper-6	
CO1	Students will be able to learn various security web application services & servers.
CO2	Students will be able to learn intrusion detection & preventions
CO3	Students will be able to learn various cryptography & network securities
CO4	Students will be able to learn cyberspace Law & policies and cyber forensic tools
CO5	Students will be able to learn various cyber security vulnerabilities & safe guards.

