

**GOVERNMENT DEGREE COLLEGE BHADRACHALAM
BHADRADRI KOTHAGUDEM DISTRICT
TELANGANA STATE
AFFILIATED TO KAKATIYA UNIVERSITY –WARANGAL**

PROGRAMME OUTCOMES OF UG BA, B COM, B.SC

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

At the end of an undergraduate Programme Student will be able to

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition
- of knowledge and ideas Demonstrate understanding of the interconnections of knowledge within and across
- disciplines Apply knowledge, theories, methods, and practices in their chosen field of study to address
- real-world challenges and opportunities Demonstrate proficiency in experimental techniques and methods of analysis appropriate
- for their area of specialisation Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses Demonstrate cognitive and technical skills to synthesise knowledge in interrelated
- disciplines Demonstrate critical thinking and judgement in identifying and solving problems with
- intellectual independence Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and

- change Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

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UG – B.Com

NO.OF CREDITS PER WEEK =05

Programme Specific Outcomes

The B.com(Gen + Computers) degree programme equip the students with the knowledge and technical skills necessary to understand and participate in the modern business world. The programme allows the students to critically evaluate and improve decision making skills.

It provides foundation for students who aspire to pursue professional courses such as CA, ICWA, CMA, ACCA, CFA and MBA. It enables students to equip themselves for careers. It enables them to develop entrepreneurial skills and thus manage their business effectively. To strengthen their skills and knowledge workshop, seminars, guest lectures, business Quizzes and mock intern views are conducted during the course of study apart from the academics, multiple cultural and social activities such as intra – departmental and inter Collegiate cultural, social and environmental awareness programmes are conducted for holistic development and to create a secure of community.

Programme Specific Outcomes

On successful completion of this programme, students will be able to

- Understand the procedures relating to the preparation of financial statements and to utilize their knowledge and solve particular problems.
- Apply the techniques of management in their day to day managerial activities.
- Understand the methods of ascertaining product cost with practical knowledge on various costing techniques.
- Analyze the business situation using statistical tools.
- Apply the tools and techniques to arrive at rational decisions.
- Perform their personal banking functions.

- Demonstrate understanding about the fundamentals of financial services and players in financial sectors.
- Analyze the scenario in the Indian financial system and its operations and regulations.
- Demonstrate necessary skills to identify various investment alternatives and to take advantage of favorable investment opportunities.
- Present financial reports for forecasting the managerial decision making.
- Use the accounting packages, such as Tally for effective decision making and improved performance.
- Demonstrate and acquaint students with fundamentals of company laws and to expose them to the statutory provisions relating to the formulation and management of a company.
- Demonstrate knowledge of insight into various concepts like capital structure planning, cost of capital, dividend policies and working capital.
- Analyze the concepts and factors affecting human resource planning , recruitment and selection.
- Demonstrate an understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints.
- Provide an overview of the fundamental concepts of E- Commerce and to understand the web based business models and e-commerce business applications.
- Demonstrate inter personal communication, business etiquette and business relationship building skills.
- Acquire conceptual knowledge of the fundamentals of corporate accounting and techniques of preparing the financial statements.
- Understand the computation of income taxable under different heads.
- Demonstrate comprehensive knowledge on the various aspects related to entrepreneurial development and to manage new business ventures.
- Understand and evaluate the audit process and procedures.
- Show knowledge of Corporate Social Responsibility (CSR) initiatives.
- Understand the importance of international business and impact of globalization.
- Acquire a wide range of exposure and gainful insights across various disciplines from the general elective courses offered by other departments.

- Explain programming fundamentals, including statement and control flow and recursion.
- Apply the concepts of class, method, constructor, instance, data abstraction, function abstraction, inheritance, overriding, overloading, and polymorphism.
- Program with basic data structures using array
- Program using objects and data abstraction, class, and methods in function abstraction.
- Program concepts of constructors and constructor overloading.
- Programming concepts of the Inheritance and its types.
- Usage of Templates.
- Programming Concepts of polymorphism and its types
- Analyze, write, debug, and test basic C++ codes using the approaches introduced in the course.

Data Structures Using C++ & File Management Systems I

SEMESTER II

At the end of this course, each student should be able to:

- Choose appropriate data structures to represent data items in real world problems.
- Analyze the time and space complexities of algorithms
- Design programs using a variety of data structures such as stacks, queues, hash tables, binary trees, search trees, heaps, graphs, and B-trees.
- Analyze and implement various kinds of searching and sorting techniques.
- Analyze the File Organizations techniques

Database Management Systems II

SEMESTER III

After the completion of this course, the students will be able to:

- Understand database concepts and structures and query language
- Understand the E R model and relational model

- To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
- Understand Functional Dependency and Functional Decomposition.
- Apply various Normalization techniques
- Perform PL/SQL programming using concept of Cursor Management, Error Handling, Package and Triggers
- Execute various advance SQL queries related to Transaction Processing & Locking using concept of Concurrency control.
- Understand query processing and techniques involved in query optimization.
- Understand the principles of storage structure and recovery management.
-

Design and Analysis of Algorithms -II

SEMESTER- IV

After the completion of this course, the students will be able to :

- Ability to analyze the performance of algorithms.
- Ability to choose appropriate algorithm design techniques for solving problems.
- Ability to understand how the choice of data structures and the algorithm design
- Apply different designing methods for development of algorithms realistic problems, such as divide and conquer, greedy method and etc.
- methods impact the performance of programs.
- To clear up troubles the usage of set of rules design methods including the grasping approach, divide and overcome, dynamic programming, backtracking and department and certain.
- To understand the variations among tractable and intractable problems.
- To introduce p and np classes

B.SC COMPUTERS JAVA-III

SEMESTER V (A)

On completion of the course the student should be able to:

- Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
- Read and make elementary modifications to Java programs that solve real-world problems.
- Validate input in a Java program.
- Identify and fix defects and common security issues in code.
- Document a Java program using Javadoc.
- Use a version control system to track source code in a project.

B.SC Computer Networks - III

SEMESTER V (B)

Upon successful completion, students will have the knowledge and skills to:

- Understand and describe the layered protocol model.
- Describe, analyse and evaluate a number of datalink, network, and transport layer protocols.
- Program network communication services for client/server and other application layouts.
- Describe, analyse and evaluate various related technical, administrative and social aspects of specific computer network protocols from standards documents and other primary materials found through research.
- Design, analyse, and evaluate networks and services for homes, data centres, IoT/IoE, LANs and WANs.

OPERATING SYSTEM III

SEMESTER V (A)

After successful completion of this course, student will be able to

- Identify basic components of operating system.
- Understand and simulate activities of various operating system components.
- Correlate basic concepts of operating system with an existing operating system.
- describe the general architecture of computers
- describe, contrast and compare differing structures for operating systems
- understand and analyse theory and implementation of: processes, resource control (concurrency etc.), physical and virtual memory, scheduling, I/O and files
- Understand the basics of operating systems like kernel, shell, types and views of operating systems
- Describe the various CPU scheduling algorithms and remove deadlocks.
- Use disk management and disk scheduling algorithms for better utilization of external memory.
- Recognize file system interface, protection and security mechanisms.

ELEMENTS OF JAVASCRIPT III

SEMESTER V (B)

After the completion of this course, the students will be able to :

- use JavaScript as an interactive tool for web development
- hand code a number of interactive processes
- implement interactive responses in your web pages
- modify CSS styles and presentation properties with JavaScript
- control images as interactive objects
- understand the Document Object Model (DOM)
- use JavaScript for specific tasks effectively and have the confidence to explore it further.
- Design and implement Object classes using class diagrams, constructors, encapsulation, inheritance, and polymorphism.
- Create anonymous functions and closures, and use them to store and access local data.
- Create event listeners and call backs to respond to user-interface and network events.
- Test and debug JavaScript web applications.

COURSE OUTCOMES

B.COM (Computers)

Fundamentals of information Technology I

SEMESTER I

After completing this course, students will be able to:

- Learn about the components of a Computer System.
- Learn about the software and its classification
- Understand basic concepts and terminology of information technology.
- Have a basic understanding of personal computers and their operations.
- Be able to identify issues related to information security.

PROGRAMMING IN C II

SEMESTER III

On the completion of this course, the students will be able to develop applications.

- Students will acquire knowledge about: Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
- Demonstrate an understanding of computer programming language concepts. To be able to develop C programs on linux platform.
- Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.
- Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures. Student must be able to define union and enumeration user defined data types.
- Develop confidence for self education and ability for life long learning needed for the computer language.

E- COMMERCE III

SEMESTER V(A)

On the Completion of the subject student should able to

- Analyze the impact of E-commerce on business models and strategy.
- Describe the major types of E-commerce.
- Explain the process that should be followed in building an E-commerce presence.
- Identify the key security threats in the E-commerce environment.
- Describe how procurement and supply chains relate to B2B E-commerce
- Develop solutions for implementing an ecommerce site.
- .Create a marketing plan and promotional plan for an ecommerce site
- Evaluate a payment system for a site.
- . Define and differentiate various types of Ecommerce.
- payment systems for E - commerce.
- process of Selling and Marketing on web.
- E-business and its Models.

Programming with C++--- III

SEMESTER V(B)

On the completing the Course, students will learn:

- Articulate the principles of object-oriented problem solving and programming.
- Outline the essential features and elements of the C++ programming language.
- Explain programming fundamentals, including statement and control flow and recursion.
- Apply the concepts of class, method, constructor, instance, data abstraction, function abstraction, inheritance, overriding, overloading, and polymorphism.
- Program with basic data structures using array

- Program using objects and data abstraction, class, and methods in function abstraction.
- Program concepts of constructors and constructor overloading.
- Programming concepts of the Inheritance and its types.
- Usage of Templates.
- Programming Concepts of polymorphism and its types
- Analyze, write, debug, and test basic C++ codes using the approaches introduced in the course.

Relational Database Management Systems III

SEMESTER VI(A)

At the end of this course, each student should be able to:

- Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
- Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.
- Learn and apply Structured query language (SQL) for database definition and database manipulation.
- Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
- Understand various transaction processing, concurrency control mechanisms and database protection mechanisms

WEB TECHNOLOGIES III

SEMESTER VI(B)

On completion of this course, a student will be able

- familiar with client server architecture and able to develop a web application using java technologies - The client-server architecture of the World Wide Web and its communication protocol HTTP/HTTPS.

- Formats and languages used in modern web-pages: HTML, XHTML, CSS, XML, XSLT, Javascript, DOM.
- Programming web pages with JAVAscript/DOM (client)
Good design, universal design, multi platform web applications
- Students will gain the skills and project-based experience needed for entry into web application and development careers.
- Students are able to develop a dynamic webpage by the use of java script
- Course Outcomes: Students will be able to connect a java program to a DBMS and perform insert,
- Students will be able to write a well formed / valid XML document.