

PROGRAMME AND COURSE OUTCOMES

DEPT. OF COMPUTER SCIENCE

PROGRAMME: B.Sc.Honours in Computer Science.

PROGRAMME OUTCOMES:

After undergoing B.Sc. Computer Sc. (Hons) programme, a student will have the ability to:

- Serve as the programmers or the software developer with the sound knowledge of practical and theoretical concepts for developing software.
- Serve as the web designers with the latest web development technologies.
- Develop programming skills to implement research projects.
- Identify, analyse and formulate complex problems including computing
- Use appropriate techniques, skills and tools necessary for computing practice.
- Work as the Hardware Designers/Engineers with the knowledge of computer Networking concepts.
- Serve as the System analyst, System integrators and the System Administrators with thorough knowledge of software Engineering and DBMS concepts.
- Work as System Tester or software Tester in several industries with the knowledge of software Engineering concepts.
- Serve as the IT officers in Banks and cooperative societies.
- Serve as System manager in various sectors.
- Apply critical thinking skills to provide sustainable solutions and analyse its effect on the environment.

Sl. No.	SEM 1	Outcome (within 50 words)
	COURSES	
1	Major-1	<u>Programming in C</u> After completing this course, students will be able to: <ul style="list-style-type: none">● Understand the basic concepts programming.● Develop efficient algorithms for problem solving.● Use the various constructs of a programming language viz. Conditional, iteration and recursion.● Usage and implementation of simple data structures like array, stacks and linked list.● Implementation of function, pointer and structure in practical scenarios.● Handling file in “C”● Develop the program to solve complex problems.

2	SEC 1	<p><u>Office Automation</u></p> <p>After completion of this subject student will able to:</p> <ul style="list-style-type: none"> ● Automate various tasks and streamline processes in an office environment using automation tools and techniques. ● Enhance productivity. ● Enhance efficiency and effectiveness by leveraging automation technologies. ● Uses of spreadsheet in practical scenarios. ● Manage and organizing emails efficiently.
	SEM 2	
	COURSES	
3	Major 2	<p><u>Digital logic Design</u></p> <p>After completion of the course the student should able to:</p> <ul style="list-style-type: none"> ● Define different number systems, binary addition, subtraction, 2's complement operation, arithmetic operation with various number systems. ● Apply Boolean laws and theorems and various gates to simplify Boolean expression. ● Understand the works of Combinational and sequential circuits. ● Building blocks of digital systems such as processors, memory units, and control units.
4	SEC 2	<p><u>Web Application</u></p> <p>Completion of this subject , students will be able to:</p> <ul style="list-style-type: none"> ● Understand the basic concept of Web application. ● Develop web pages using HTML,CSS,JS etc. ● Understand the concept of client-server architecture. ● Implement Back-end development such as server side programming language, Database connection, Web API and RESTfull services. ● Understand the concept of authentication and security. ● Understand the basic concept of popular Web application framework such as Angular, React etc. ● Develop Single-page application.
5	Minor 2	<p><u>Introduction to Programming</u></p> <p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> ● Understand the basic concepts programming. ● Develop efficient algorithms for problem solving. ● Use the various constructs of a programming language viz. Conditional, iteration and recursion. ● Usage and implementation of simple data structures like array, stacks and linked list. ● Implementation of function, pointer and structure in practical scenarios. ● Handling file in “C” ● Develop the program to solve problems.

PROGRAMME: B.Sc. in Multidisciplinary Studies with Computer Science.

PROGRAMME OUTCOMES:

After undergoing B.Sc. Computer Sc.(Gen) programme, a student will have the ability to:

- Apply fundamental principles and methods of Computer Science to a wide range of applications.
- Learn the fundamentals of computing systems, design and functionality of the hardware components and their underlying execution.
- Acquire required programming skills, formulate and solve practical problems.
- Design, correctly implement and document solutions to significant computational problems.
- Create, select, and apply appropriate techniques, resources, and modern computing and IT tools
- Develop proficiency in the practice of computing.
- Work as a DTP operator in small-scale industries.
- Work as an IT sales and marketing person.
- Give Technical support for the various systems.
- Work as the software support services consultant and the technical writers.

Sl. No.	SEM 1	Outcome (within 50 words)
	COURSES	
1	Major (Disc.-A1)	<p><u>Problem Solving using Computer</u></p> <p>After completion of the course the students will be able to:</p> <ul style="list-style-type: none"> ● Understand computer basics. ● Understand the several components of computer. ● Define different number systems, binary addition, subtraction, 2's complement operation, arithmetic operation with various number systems. ● Explain the concept of operating system. ● Understand the concept of about data communication and computer network.
2	SEC 1	<p><u>Office Automation</u></p> <p>After completion of this subject student will able to:</p> <ul style="list-style-type: none"> ● Automate various tasks and streamline processes in an office environment using automation tools and techniques. ● Enhance productivity. ● Enhance efficiency and effectiveness by leveraging automation technologies. ● Uses of spreadsheet in practical scenarios. ● Manage and organizing emails efficiently.