

Department of Information Technology

Programme outcome

B.Sc. Information Technology

Through completion of the Bachelor of Science in Information Technology program, students will:

1. Apply knowledge of computing requirements for technology solutions in business applications.
 - Apply knowledge of applications development.
 - Develop scripts for information technology applications.
 - Develop computer code for business applications.
 - Create, install, and configure virtual machines.
2. Analyze a problem and identify and define the computing requirements for the appropriate solutions.
 - Plan, install, manage, and troubleshoot a computer network.
 - Apply telecommunications principles to design and configure a network.
 - Plan and implement security technology.
3. Design and use spread sheets and database applications for business processes and tracking.
 - Use spread sheets for business applications and project tracking.
 - Design a relational database using Microsoft Access.
 - Construct a conceptual database model and write queries for relational databases.
4. Develop an understanding of professional, ethical, legal, security, and social issues and responsibilities. Explain ethical and legal issues impacting information technology.
5. Develop the ability to function effectively on teams to accomplish a common goal.
 - Examine the project life cycle, project teams, estimating project times, developing plans, identifying risks, and outsourcing.
 - Apply project management techniques to IT projects.
6. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
 - Develop information technology solutions by evaluating user requirements in the systems development environment.
 - Develop an information technology solution to a real-world problem including design, implementation, and evaluation of the computer-based system.

7. Develop an ability to communicate effectively with a range of audiences. Develop written and oral presentations of information technology solutions appropriate for a wide range of audiences.

Programme Specific outcomes

B.Sc., INFORMATION TECHNOLOGY

On completion of the B.Sc. (Information Technology) students are able to:

- Serve as Programmer or Software Engineer with sound knowledge of practical and theoretical concepts for developing software's.
- Serve as Computer Engineer with enhanced knowledge of computers and its building blocks.
- Work as Systems Engineer and System integrator.
- Serve as System Administrator with thorough knowledge of DBMS.
- Give Technical Support for various systems. Work as Support Engineer and Technical Writer.
- Work as Consultant and Management officers for system management.
- Work as IT Sales and Marketing person.
- Serve as IT Officer in Banks and cooperative societies.
- Work as DTP Operator in small scale industries.
- Serve as Web Designer with latest web development technologies.

Course outcomes

B.Sc. – I

PAPER-I

- Know about concept of IT, Application of IT, impact of IT on society and industry, legal and ethical aspect, security and threats in IT.
- Know about basic concept of computer network, wireless communication and social networking.
- To understand theoretical and practical knowledge of Word Processing (MS-Word), spread sheet (MS-Excel), MS-Excess and MS-Power Point.

PAPER-II

- To understand Fundamentals of C Programming.
- To understand theoretical and practical knowledge of Control Constructs, Array, String, Structure, Union and Enum, Pointer, File Handling and Miscellaneous feature of C Programming.

B.Sc. – II

PAPER-I

- To understand Number System and Boolean algebra.
- To understand Basics and working about Combinational Circuits and Multivibrator Circuits.
- To understand Basics of Central Processing unit and I/O organisation and Memory organisation of Computer.

PAPER-II

- To understand basics of Object Oriented Programming in C++
- To know theoretical and practical knowledge of function, object and classes, pointers, file and stream in C++ Programming.

B.Sc. – III

PAPER-I

- To understand basics about Power amplifier, Feedback amplifier and oscillators, operational amplifier and power control devices.
- To understand basics, architecture and working of 8080/8085 microprocessors, and programming the microprocessor.

PAPER-II

- To understand fundamentals of Data Structure.
- To know theoretical and practical knowledge of linked list, tree, stack and queue, searching and sorting, tables and graphs in data structure using C/C++