Department of Computer Science

On completion of the B.Sc. (Computer science) students are able to:

- Serve as Programmer or Software Engineer with sound knowledge of practical and theoretical concepts for developing softwares.
- Serve as Computer Engineer with enhanced knowledge of computers and its building blocks.
- Work as Hardware Designer/Engineer with knowledge of Networking concepts.
- 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.

Program Specific Outcomes of M.Sc. (Computer Science)

The career opportunities after **M.Sc. (Computer Science)** are quite huge. Many major national and multinational firms take in aspirants who have accomplished their graduation in these fields. The top IT firms such as Microsoft, Google, Yahoo, Rediff, Wipro, TCS, Infosys, Accenture, Cap Gemini etc. offer aspirants very attractive packages. Jobs for professionals in these fields can also be got with management consultancy organizations, Government organizations, Banks, Educational Institutions, Research Organizations and other organizations that use computers and computer-aided systems.

On completion of the M.Sc. (Computer science) students are able to work as:

- Programmer or Software Engineer
- Computer Engineer
- Web Designer
- Hardware Designer/Engineer
- Systems Engineer
- System integratora
- System Administration
- Technical Support

- Support Engineer
- Technical Writer
- Consultant
- Management
- Administration
- IT Sales and Marketing
- IT Officer
- Computer Scientist
- Research Staff Member
- Systems Analyst
- Logic Designer
- Computer Scientist in research and R & D laboretories.

Department of Electronics-Physics

On completion of the B. Sc. (Electronics and Physics) program, students will be able to

- Understand Basic Circuits using Active Devices.
- Understand Basic Analog Circuits and their applications using Active Devices.
- Learn basic test instruments such as power supply, function generator and CRO and their construction and working principle.
- understand Basic differential amplifier and their applications in linear Integrated circuits
- Design & conduct experiments as well as to analyze data and its interpretation.
- Design a system components or process to meet desired needs within realistic constraints such as economic environmental, social, political, ethical, health & safety.
- Understand the fundamental concept of semiconductor like crystal structure, energy band gap etc
- Learn the Concept of Quantum Mechanics, Relativity, introduced at degree level in order to understand nature at atomic levels.
- Understand about material properties and its application for developing technology to ease the problems related to society.
- Understand the set of physical laws, describing the motion of bodies, under influence of system of forces.
- Understand the relationship between particles & atom, as well as their creation & decay.
- Relate the structure of atoms & subatomic particles
- Understand physical properties of molecule the chemical bonds between atom as well as molecular dynamics.
- Analyze the application of mathematics to problem in physics & development of mathematical method suitable for such application & for formulation of physical theories.

Department of Chemistry

Outcome of BSc Chemistry

- To provide a broad foundation in chemistry that stresses scientific reasoning and Analytical problem solving with a molecular perspective.
- To provide students with the skills required to succeed in graduate school, the chemical industry or professional school.
- To expose the students to a breadth of experimental techniques using modern instrumentation.
- The student will understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information.
- The student will understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems.
- The student will learn the laboratory skills needed to design, safely conduct and interpret chemical research.
- The student will acquire a foundation of chemistry of sufficient breadth and depth to enable them to understand and critically interpret the primary chemical literature.
- The student will develop the ability to effectively communicate scientific information and research results in written and oral formats.
- The student will learn professionalism, including the ability to work in teams and apply basic ethical principles.

Department of Microbiology

B.Sc.(Microbiology)

Upon completion of B.Sc. Microbiology programme, the students will be able to

- Perform the basic techniques related to screening, isolation and cultivation of microorganisms from various sources
- Study the microorganism with regard to morphology, cultural and biochemical characters. It will help to classify the microbes to certain extent.
- Follow the aseptic techniques and conduct the process of sterilization as well as perform the techniques to control the microorganism
- Understand microorganisms and their relationship with the environment,
- Produce and analyze the microbial products at laboratory level
- Conduct the basic research with these microorganisms and perform the diagnostic procedures required in food, milk and pharmaceutical industries.

M.Sc. (Microbiology)

On completion of M.Sc. (Microbiology), students are able to:

- Instill the intellectual skills to analyze the molecules using advance biophysical techniques such as HPLC, GC, AAS, PCR etc.
- Perform the quantitative/ qualitative analysis of Biomolecules and understand various biochemical pathways
- Acquire knowledge and understanding the concepts of Microbial genetics, Molecular biology, Immunology, Enzymology.
- Explore the scientific literature effectively and use computational tools such as bio-statistical and bioinformatics
- Implement the knowledge in industry with regard to scale up, production, scale down and quality control of the various microbial products
- Conduct the basic research related to industry-environmental issues and use of agricultural for sustainable products

Department of Commerce

After Completing Bachelor of Commerce (B.Com) course, students are able to:

- To build a strong foundation of knowledge in different areas of Commerce.
- To develop the skill of applying concepts and techniques used in Commerce.
- To develop an attitude for working effectively and efficiently in a business environment.
- To integrate knowledge, skill and attitude that will sustain an environment of learning and creativity among the students.
- To expose students about entrepreneurship.
- To enable a student to be capable of making decisions at personal and professional level.