

## COMPUTER SCIENCE

CODE: CO

Computer science is the study of computation and information. Computer science deals with theory of computation, algorithms, computational problems and the design of computer systems hardware, software and applications. Its fields can be divided into theoretical and practical disciplines. Computational complexity theory is highly abstract, while computer graphics and computational geometry emphasizes real-world applications. Algorithmics is called the heart of computer science. Programming language theory considers approaches to the description of computational processes, while software engineering involves the use of programming languages and complex systems.

### Courses Available

- ✓ Data Structures
- ✓ Object oriented Programming
- ✓ Operating Systems
- ✓ Information Theory And Coding
- ✓ Computer networks
- ✓ Compiler Design
- ✓ Distributed Systems

## ELECTRICAL ENGINEERING

CODE: EE

Electrical engineering is an engineering discipline concerned with the study, design and application of equipment, devices and systems which use electricity, electronics, and electromagnetism. It emerged as an identifiable occupation in the latter half of the 19th century after commercialization of the electric telegraph, the telephone, and electrical power generation, distribution and use. Electrical engineers work in a very wide range of industries and the skills required are likewise variable. These range from circuit theory to the management skills of a project manager. The tools and equipment that an individual engineer may need are similarly variable, ranging from a simple voltmeter to a top end analyzer to sophisticated design and manufacturing software.

### Course Available

- ✓ Linear Integrated circuits
- ✓ Control Systems
- ✓ Circuits and Systems
- ✓ Power Electronics
- ✓ Power System Analysis

## MECHANICAL ENGINEERING

CODE: ME

Mechanical engineering is an engineering discipline that combines engineering physics and mathematics principles with materials science to design, analyze, manufacture, and maintain mechanical systems. It is one of the oldest and broadest of the engineering disciplines. The mechanical engineering field requires an understanding of core areas including mechanics, dynamics, thermodynamics, materials science, structural analysis, and electricity. In addition to these core principles, mechanical engineers use tools such as computer-aided design (CAD), computer-aided manufacturing (CAM), and product lifecycle management to design and analyze manufacturing plants, industrial equipment and machinery, heating and cooling systems, transport systems, aircraft, watercraft, robotics, medical devices, weapons, and others.

### Course Available

- ✓ Mechanics of Solids
- ✓ Machine Drawing and Solid Modeling
- ✓ Engineering Analysis and Design
- ✓ Manufacturing Machines
- ✓ Fluid Mechanics
- ✓ Kinematics of Machines
- ✓ Design of Machine Elements