



Shri Sant Gajanan Maharaj College of Engineering, Shegaon

Department of Information Technology

Course Outcomes (CO)

Year: 2N Semester-Autumn (IV)

Subject: Computer Organization and Architecture

Subject Code: 4IT01

CO1: Understand the basics of instructions sets and their impact on processor design

CO2: Demonstrate an understanding of the design of the functional units of a digital computer system.

CO3: Evaluate cost performance and design trade-offs in designing and constructing a computer processor including memory.

CO4: Design a pipeline for consistent execution of procedure and multi processors.

Subject: DATA COMMUNICATION & NETWORKING

Subject Code:4IT02

CO1: Demonstrate the principles and fundamental concepts of computer networks.

CO2: Demonstrate and explain data communication systems with their techniques and applications.

CO3: Identify various error detection and correction techniques in data transmission.

CO4: Evaluate the network addresses and learn routing mechanism protocols.

CO5: Design TCP connection and analyze upper OSI layer functions and services.

Subject: Operating System

Subject Code: 4IT03

CO1: Able to control access to a computer and the files that may be shared.

CO2: Demonstrate the knowledge of the components of computer and their respective roles in computing.

CO3: Understand to recognize and resolve user problems with standard operating environments

CO4: Analyze the practical knowledge of how programming languages, operating systems, and architectures interact and how to use each effectively

Subject: Data Structure

Subject Code: 4IT04

CO1: Understand basic data structures such as arrays, strings, and linked lists

CO2: Understand linear data structures such as stacks and queues and understand their difference

CO3: Understand the concept of hash function and collision and its resolution methods.

CO4: Understand the concept of memory management.

CO5: Analyze the basic operations of tree, heap and graphs.

CO6: Analyze different techniques for solving problems like sorting and searching

Subject: Social Science and Engineering Economics

Subject Code: 4IT05

- CO 1:** Exercise his/her fundamental rights in the proper sense and at the same time identify his/her responsibilities in nation-building.
- CO 2.** Understand the composition and powers of the Indian Parliament.
- CO 3.** Measure the impact of science and technology on culture and civilization.
- CO 4.** Assess the different market structures and their implications on the Economy.
- CO 5.** Analyze and compare different factors of production using the concept of cost, and returns to scale.
- CO 6.** Predict the impact of various obstacles to economic growth in the Indian context.