



Shri Sant Gajanan Maharaj College of Engineering, Shegaon

Department of Information Technology

Course Outcomes (CO)

Academic Year-2023-24

Year: 3N Semester-Autumn (V)

Subject: Database Management System

Subject Code: 5IT01

CO1: Understand the concepts of database and analyze ER model.

CO2: Categorize different normal forms and build relational algebra queries.

CO3: Classify different operations and construct SQL queries.

CO4: Understand the basic concepts of transactions and use them in schedules.

CO5: Choose the proper concurrency control scheme and evaluate database security.

Subject: Theory of Computation

Subject Code: 5IT02

CO1: To analyze formal languages with help of fundamental concepts and Finite Automata

CO2: To create regular expressions and grammars which can be used to represent formal language in different forms.

CO3: To analyze the formal languages, their powers using different forms of grammars and classify them according to Chomsky hierarchy.

CO4: To design Push Down Automata for a Context Free Language along with context sensitive languages.

CO5: To design Turing machine for performing different types for computations.

CO6: To identify the decidability and undecidability of problems in case of formal languages.

Subject: Software Engineering

Subject Code: 5IT03

CO1: Understand the Fundamental Concepts of software engineering life cycle

CO2: Summarize the software engineering requirements specification and the SRS documents

CO3: Understand the software engineering layered technology and process framework

CO4: Illustrate the various design and development solution with proper analysis

CO5: Demonstrate the competence in communication planning, analysis, design, construction, and development of software as per requirement

CO6: Demonstrate the software project management skill through case studies

Subject: Data Science and Statistics

Subject Code: 5IT04

CO1: On completion of the course, the students will be able to Apply Numpy and Pandas Library functions on datasets.

CO2: On completion of the course, the students will be able to Analyze data by performing EDA and data visualization by using various plots.

CO3: On completion of the course, the students will be able to Create hypothesis on data and perform various hypothesis testing test

CO4: On completion of the course, the students will be able to Measure the Performance of Linear regression model on dataset.

CO5: On completion of the course, the students will be able to Measure the Performance of Logistic regression model on dataset.

Subject: Power Supply System (Open Elective – I)

Subject Code: 5IT05

CO1: Distinguish between construction and working of various power generation plants

CO2: Describe layout and working of Substations

CO3: Compare various power distribution system

CO4: Explain types of wiring, necessity of earthing and safety precautions