**SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING, SHEGAON**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**PROGRAM: B.E. (INFORMATION TECHNOLOGY)**

**ACADEMIC SESSION: 2025-26**

**COURSE OUTCOMES ( NEP SCHEME)**

**CLASS: SECOND YEAR** **SEMESTER: III**

**Course Title**: Discrete Structure and Graph Theory **Course Code**: 3IT200PC

After successful completion of the course, students will be able to:

**CO1:** Demonstrate the basic terminologies of mathematical logic, theory of inference and set theory.

**CO2:** Apply mathematical logic, inference theory and set theory, to solve engineering problems.

**CO3:** Apply algebraic structures, grammar, polish expressions and lattices to solve the mathematics expressions.

**CO4:** Apply the lattices for partially ordered relations and Boolean algebraic simplification methods to minimize the Boolean functions.

**CO5:** Analyze graphs based on various parameters for graph manipulation and storage representation.

**Course Title**: Object Oriented Programming **Course Code**: 3IT201PC

After successful completion of the course, students will be able to:

**CO1:** Apply Java syntax and constructs to implement functional programs.

**CO2:** Apply the concepts of inheritance, aggregation, method overriding, abstract classes, interfaces, and packages to develop Java programs.

**CO3:** Apply the concepts of exception handling and file handling to develop robust Java programs.

**CO4:** Apply the concepts of Java applets to develop interactive graphical programs.

**CO5:** Apply event-handling concepts to develop interactive Java applications.

**Course Title**: Analog and Digital Electronics **Course Code:** 3IT202PC

After successful completion of the course, students will be able to:

**CO1:** Apply the basic concepts of analog electronics while choosing a transistor as per application.

**CO2:** Categorize different applications of the operational amplifier.

**CO3:** Discriminate the working of sinusoidal and non-sinusoidal waveform generators.

**CO4:** Apply the basic concepts of digital electronics and K-map to simplify logic expressions.

**CO5:** Analyze combinational and sequential circuits for different applications.

**Course Title:** Introduction to Data Structures **Course Code:** 3IT205MD

After successful completion of the course, students will be able to:

**CO1:** Apply data structure concepts to analyze complexity and perform operations like searching, sorting, insertion, and deletion on linear arrays.

**CO2:** Apply linked lists, stacks, and queues with basic operations to solve computational problems

**CO3**: Implement and analyze tree and graph data structures with traversal, searching, and path-finding algorithms.

**Course Title:** OE-1 Cyber Law **Course Code:** 3IT206OE

After successful completion of course, students will be able to:

**CO1:** Apply basic computer and internet concepts to analyze their role in digital business and governance.

**CO2:** Apply knowledge of e-payment systems to select suitable methods for secure online transactions.

**CO3**: Identify types of cybercrimes and common techniques used by cyber offenders.

**CO4:** Categorize cybercrimes and relate them to relevant legal provisions.

**CO5:** Apply sections of the IT Act to given cyber law scenarios.

**CO6:** Describe ethical and security concerns associated with the use of digital technologies.

**Course Title:** Entrepreneurship Development **Course Code:** 3IT207EM

After successful completion of course, students will be able to

**CO1:** Understand the definitions and fundamental concepts of entrepreneurship and start-ups.

**CO2:** Understand the role of a business plan in guiding the implementation of business ideas.

**CO3:** Understand the company's organization structure and its role in effective management.

**Course Name**: Environmental Science **Course Code:** 3SH208VE

After successful completion of course, students will be able to

**CO1:** Understand the multidisciplinary nature of environment and Renewable and non-renewable resources

**CO2:** Understand natural environment and its relationship with human activities.

**CO3:** Understand the basic concepts and problems and follow sustainable development practices.