



## **COMPUTER SCIENCE ENGINEERING**

### **II Year- I Sem**

#### **DATA STRUCTURES**

##### **(CS302PC):**

##### **Course Outcomes:**

Upon completion of the Course, the students will be able to:

- 1) Know the characteristics of various components.
- 2) Understand the utilization of components. Design and analyze small signal amplifier circuits.
- 3) Learn Postulates of Boolean algebra and to minimize combinational functions
- 4) Design and analyze combinational and sequential circuits
- 5) Know about the logic families and realization of logic gates.

#### **COMPUTER ORIENTED STATISTICAL METHODS**

##### **( MA303BS)**

##### **Course Outcomes:**

After learning the contents of this paper the student must be able to

- 1) Apply the concepts of probability and distributions to some case studies
- 2) Correlate the material of one unit to the material in other units
- 3) Resolve the potential misconceptions and hazards in each topic of study.
- 4) Understand the Basics of Statistics and Data Analysis
- 5) Apply Statistical Software for Data Analysis

**OBJECT ORIENTED PROGRAMMING USING C++****(CS305PC)****Course Outcomes:**

- 1) Able to develop programs with reusability
- 2) Understand C++ Fundamentals
- 3) Develop programs for file handling
- 4) Handle exceptions in programming
- 5) Develop applications for a range of problems using object-oriented programming techniques

**COMPUTER ORGANIZATION AND ARCHITECTURE****(CS304PC)****Course Outcomes:**

- 1) Understand the basics of instructions sets and their impact on processor design.
- 2) Demonstrate an understanding of the design of the functional units of a digital computersystem.
- 3) Evaluate cost performance and design trade-offs in designing and constructing a computer processor including memory.
- 4) Design a pipeline for consistent execution of instructions with minimum hazards
- 5) Recognize and manipulate representations of numbers stored in digital computers

**IT WORKSHOP LAB****( CS308PC)****Course Outcomes:**

- 1) Perform Hardware troubleshooting
- 2) Understand Hardware components and inter dependencies
- 3) Safeguard computer systems from viruses/worms
- 4) Document/Presentation preparation
- 5) Perform calculations using spreadsheets



## **ANALOG AND DIGITAL ELECTRONICS**

**(CS301ES)**

### **Course Outcomes:**

Upon completion of the Course, the students will be able to:

- 1) Know the characteristics of various components.
- 2) Understand the utilization of components. Design and analyze small signal amplifier circuits.
- 3) Learn Postulates of Boolean algebra and to minimize combinational functions
- 4) Design and analyze combinational and sequential circuits
- 5) Know about the logic families and realization of logic gates.

## **C++ PROGRAMMING LAB**

**(CS309PC)**

### **Course Outcomes:**

- 1) Ability to develop applications for a range of problems using object-oriented programming techniques

## **DATA STRUCTURES LAB**

**(CS307PC)**

### **Course Outcomes:**

- 1) Ability to develop C programs for computing and real-life applications using basic elements like control statements, arrays, functions, pointers and strings, and data structures like stacks, queues and linked lists.
- 2) Ability to Implement searching and sorting algorithms

## **ANALOG AND DIGITAL ELECTRONICS LAB (CS306ES)**

### **Course Outcomes:**

Upon completion of the Course, the students will be able to:

- 1) Know the characteristics of various components.
- 2) Understand the utilization of components.
- 3) Design and analyze small signal amplifier circuits.



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- 4) Postulates of Boolean algebra and to minimize combinational functions
  - 5) Design and analyze combinational and sequential circuits
  - 6) Known about the logic families and realization of logic gates.

### **GENDER SENSITIZATION LAB (\*MC309)**

#### **Course Outcomes:**

Students will have developed a better understanding of important issues related to gender in contemporary India.

- 1) Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.
- 2) Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
- 3) Students will acquire insight into the gendered division of labour and its relation to politics and economics.
- 4) Men and women students and professionals will be better equipped to work and live together as equals.
- 5) Students will develop a sense of appreciation of women in all walks of life. Through providing accounts of studies and movements as well as the new laws that provide
- 6) protection and relief to women, the textbook will empower students to understand and respond to gender violence.

**Principal**



## **COMPUTER SCIENCE ENGINEERING**

### **II Year- II Sem**

#### **OPERATING SYSTEMS**

##### **(CS403PC)**

- 1) Will be able to control access to a computer and the files that may be shared
- 2) Demonstrate the knowledge of the components of computer and their respective roles in computing.
- 3) Ability to recognize and resolve user problems with standard operating environments.
- 4) Gain practical knowledge of how programming languages, operating systems,
- 5) Gain practical knowledge of how architectures interact and how to use each effectively.

#### **DATABASE MANAGEMENT SYSTEMS**

##### **(CS404PC)**

#### **Course Outcomes:**

- 1) Gain knowledge of fundamentals of DBMS, database design and normal forms
- 2) Master the basics of SQL for retrieval and management of data.
- 3) Be acquainted with the basics of transaction processing
- 4) Be acquainted with the basics of concurrency control.
- 5) Familiarity with database storage structures and access techniques

#### **DISCRETE MATHEMATICS**

##### **(CS401PC)**

#### **Course Outcomes:**

- 1) Ability to understand and construct precise mathematical proofs
- 2) Ability to use logic and set theory to formulate precise statements
- 3) Ability to analyze and solve counting problems on finite and discrete structures
- 4) Ability to describe and manipulate sequences
- 5) Ability to apply graph theory in solving computing problems



## **JAVA PROGRAMMING**

**( CS405PC)**

### **Course Outcomes:**

- 1) Able to solve real world problems using OOP techniques.
- 2) Able to understand the use of abstract classes.
- 3) Able to solve problems using java collection framework and I/o classes. Able to develop multithreaded applications with synchronization.
- 4) Able to develop applets for web applications.
- 5) Able to design GUI based applications

## **DATABASE MANAGEMENT SYSTEMS LAB**

**(CS407PC)**

### **Course Outcomes:**

- 1) Design database schema for a given application and apply normalization
- 2) Acquire skills in using SQL commands for data definition and data manipulation.
- 3) Develop solutions for database applications using procedures, cursors and triggers

## **JAVA PROGRAMMING LAB**

**(CS408PC)**

### **Course Outcomes:**

- 1) Able to write programs for solving real world problems using java collection frame work.
- 2) Able to write programs using abstract classes.
- 3) Able to write multithreaded programs.
- 4) Able to write GUI programs using swing controls in Java.

**OPERATING SYSTEMS LAB (Using UNIX/LINUX)****(CS406PC)****Course Outcomes:**

- 1) Simulate and implement operating system concepts such as scheduling, deadlock management, file management and memory management.
- 2) Able to implement C programs using Unix system calls

**BUSINESS ECONOMICS AND FINANCIAL ANALYSIS****( SM306MS)****Course Outcomes:**

The students will understand the various Forms of Business and the impact of

- 1) Economic variables on the Business.
- 2) The Demand, Supply, Production, Cost, Market Structure,
- 3) Pricing aspects are learnt.
- 4) The Students can study the firm's financial position by analysing the
- 5) Financial Statements of a Company.

**CONSTITUTION OF INDIA****(\*MC409)****Course Outcomes:**

- 1) Improve their knowledge about Indian constitution .
- 2) Value their identity and exercise their fundamental rights.
- 3) Understand how differently government bodies function

**Principal**