Course Outcomes

Academic Year – 2021-2022 **Semester: III (Autonomous)**

Student will be able to

CO. No.	Description
	Course outcomes: C31– Mathematics – III (Probability & Statistics)
C31.1	Solve field problems in engineering involving PDEs
C31.2	Solve problems involving random variables and apply statistical methods for analyzing experimental data.
C31.3	Compute and interpret descriptive statistics.
C31.4	Fit the model using Regression Analysis.
C31.5	Interpret Time series data.
CO. No.	**Description**
	Course outcomes: C32– (Finance and Accounting)
C32.1	Evaluate the financial performance of the business unit.
C32.2	Take decisions on selection of projects.
C32.3	Take decisions on procurement of finances.
C32.4	Analyze the liquidity, solvency and profitability of the business unit.
C32.5	Evaluate the overall financial functioning of an enterprise.
CO. No.	**Description**
	Course outcomes: C33– (Data Structures and Algorithms)
C33.1	Understand the importance of abstract data type and implementing the concepts of data structure using abstract data type.
C33.2	Evaluate an algorithm by using algorithmic performance and measures
C33.3	Distinguish between linear and non-linear data structures and their representations in the memory using array and linked list
C33.4	Apply the suitable data structure for a real world problem and think critically for improvement in solutions
C33.5	Determine the suitability of the standard algorithms: Searching, Sorting and Traversal
CO. No.	**Description**
	Course outcomes:C34 - Digital Electronics (PC403CSM**)**
C34.1	Understand the Basics of Digital Electronics and concepts related to Digital Circuits design.
C34.2	Design various logic gates and simplify Boolean Expressions.
C34.3	Realize and analyses the operation of MUX, decoders, adder, subtract or, BCD adder, magnitude comparator circuit.
C34.4	Study and construction of Sequential logic Circuits.
C34.5	Understand various design of flip flops and to identify and realize circuits using flip-flop.

CO. No.	**Description**
	Course outcomes:C35 – PYTHON PROGRAMMING (PC404CSM**)**
C35.1	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
C35.2	Demonstrate proficiency in handling Strings and File Systems.
C35.3	Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.
C35.4	Interpret the concepts of Object-Oriented Programming as used in Python.
C35.5	Implement exemplary applications related to Network Programming.
C35.6	Implement exemplary applications related to, Web Services and Databases in Python
CO. No.	**Description**
	Course outcomes: C36– (AUTOMATA LANGUAGES AND COMPUTATION)
C36.1	Gain knowledge of the various abstract machines
C36.2	Use regular languages and regular expression for constructing different finite state machines
C36.3	Understand and design different types of grammars
C36.4	Construct Push down Automata
C36.5	Construct Turing Machine
CO. No.	**Description**
	Course outcomes: C37– (GENDER SENSITIZATION)
C37.1	Students will have developed a better understanding of important issues related to gender in contemporary India.
C37.2	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.
C37.3	Students will attain a finer grasp of how gender discrimination works in our society and How to counter it.
C37.4	Students and professionals will be better equipped to work and live together as equals
C37.5	Students will develop a sense of appreciation of women in all walks of life.
CO. No.	**Description**
	Course outcomes C38– (Data Structures and Algorithms Lab)
C38.1	Implement various data structures using arrays, linked lists
C38.2	Develop ADT necessary for solving problems based on Stacks and Queues
C38.3	Implement binary trees, general tree structures, advanced search trees, heaps, graphs.
C38.4	Implement hash functions and handle collisions
C38.5	Implement various kinds of sorting techniques and apply appropriate techniques for solving a given problem

C38.6	Implement various kinds of searching techniques and apply appropriate techniques for solving a given problem
CO. No.	**Description**
	Course outcomes: C39– (Python Programming Lab)
C39.1	Explore Basics of Python programming
C39.2	Understand the concepts of Decision Making and Functions in Python
C39.3	Implement the file handling technique to using python programming
C39.4	Implement the digital and numerical numbers using python programming
C39.5	Explore the collazt using python programming
C39.6	Understand the concept of regular expression (Regex) in python

LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY
Department of Computer Science & Engineering-AIML

Course Outcomes

Academic Year – 2021-2022 **Semester: IV (Autonomous)**

Student will be able to

CO. No.	Description
	Course outcomes: C41–Effective Technical Communication in English**(**HS104EG**)**
C41.1	Handle technical communication effectively
C41.2	Use different types of professional correspondence
C41.3	Use various techniques of report writing
C41.4	Acquire adequate skills of manual writing
C41.5	Enhance their skills of information transfer and presentations
CO. No.	**Description**
	Course outcomes:C42– Design and Analysis of Algorithms **(**PC401CSM**)**
C42.1	Analyze the performance of algorithms.
C42.2	Choose appropriate algorithm design techniques for solving problems.
C42.3	Apply the Dynamic programming to solve problems of the real world.
C42.4	Solve problems Which use Graphs as their data structure.
C42.5	Distinguishes NP class of problems.
CO. No.	**Description**
	Course outcomes: C43 – Database Management Systems**(**BS205MT**)**
C43.1	Understand the basic concepts and the applications of database systems
C43.2	Design ER-models to represent simple database application scenarios.
C43.3	Master the basics of SQL and construct queries using SQL.
C43.4	Demonstrate creation and usage of Triggers, Views and Stored Procedures using SQL.
C43.5	Recognize and identify the use of normalization and functional dependency in database design.
C43.6	Apply and relate various advances SQL queries related to Transaction Processing & Locking using concept of Concurrency control.
C43.7	To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
CO. No.	**Description**
	Course outcomes:C44 - Software Engineering (PC403CSM**)**
C44.1	Acquire knowledge about different software development processes and their usability in different problem domains.
C44.2	Understand the process of requirements collection, analyzing, and modeling requirements for effective understanding and communication with stakeholders.
C44.3	Design and develop the architecture of real world problems towards developing a blueprint for implementation.

C44.4	Use the UML language to design various models during software development life cycle.
C44.5	Understand the concepts of software quality, testing and maintenance.
CO. No.	**Description**
	Course outcomes:C45 – Introduction To Machine Learning (PC404CSM**)**
C45.1	Design and implement machine learning solutions of classification, regression problems.
C45.2	Evaluate and interpret the results of the machine learning algorithms.
C45.3	Evaluate exploratory data analysis and Data preparation and preprocessing on different datasets.
C45.4	Calculate Statistical measurements of the given data.
C45.5	Analyze and identify the best algorithm matches for a given dataset.
C45.6	Analysis and identify best algorithm matches for a given data set
CO. No.	**Description**
	Course outcomes:C46 – Java Programming (PC405CSM**)**
C46.1	Use concepts of OOPs such as data abstraction, inheritance, polymorphism, encapsulation and method overloading principles in structuring computer applications for solving problems.
C46.2	Choose appropriate collections to solve programming problems.
C46.3	Utilize the concepts of I/O streams and exception handling in a given real time problem.
C46.4	Build java applications to utilize advanced mechanisms like multi-threading, database connectivity, etc.
C46.5	Apply the concepts and principles of the programming language to the real-world problems and solve the problems through project-based learning
CO. No.	**Description**
	Course outcomes: C47– Database Management Systems Lab (PC451CSM**)**
C47.1	Design database schema for a given application and apply normalization
C47.2	Gather skills in using SQL commands for data definition and data manipulation.
C47.3	Develop solutions for database applications using procedures, cursors and triggers
C47.4	Understand the logical new data design for database system
C47.5	Apply the logic to create new data database design
CO. No.	**Description**
	Course outcomes:C48 – Machine Learning Lab (PC452CSM**)**
C48.1	Design and implement machine learning solutions to classification, regression problems.
C48.2	Understand complexity of Machine Learning algorithms and their limitations
C48.3	Applying common Machine Learning algorithms in practice and implementing their own;
C48.4	Experiment in Machine Learning using real-world data.·
C48.5	Evaluate and interpret the results of the algorithms.
C48.6	Evaluate and interpret the results of the algorithms
CO. No.	**Description**
	Course outcomes:C49 – Java Programming Lab (PC453CSM**)**

C49.1	Develop Java applications using the concepts of Inheritance, interfaces, packages, access control specifiers.
C49.2	Implement the concepts of Exception Handling in java Applications.
C49.3	Read and write data using different Java I/O streams.
C49.4	Create graphical user interfaces and Applets by applying the knowledge of Event Handling.
C49.5	Create robust applications using Java standard class libraries and retrieve data from a database with JDBC.
C49.6	Solve real-world problems by designing user friendly GUI with befitting backend through the APIs of Java.