LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE OUTCOMES

A.Y 2025-26

II Year-I Sem- (III Semester)

Name of the Course: Operation Research

Course.No	Outcomes
C211.1	Understand the ideas of mathematical induction to recursion and recursively defined structures.
C211.2	Prepare the students to have the knowledge of Linear Programming Problem in Operations
C211.3	Research at the end students would be able to understand the concept and develop the models for different applications.
C211.4	Make students understand the concept Replacement models at the end students would able to explain various features and applications of replacement models in real time scenario
C211.5	Prepare the students to understand theory of Game in operations research at the end students would able to explain application of Game theory in decision making for a conflict

Name of the Course: Software Engineering

Course.No	Outcomes
C212.1	Acquired working knowledge of alternative approaches and techniques for each phase of software development
C212.2	Judge an appropriate process model(s) assessing software project attributes and analyze necessary requirements for project development eventually composing SRS
C212.3	Creation of visual models to describe (non-) algorithmic solutions for projects using various design principles. practical challenges associated with the development of a significant software system.
C212.4	Acquire skills necessary as an independent or as part of a team for architecting a complete software project by identifying solutions for recurring problems exerting knowledge on patterns
C212.5	Concede product quality through testing techniques employing appropriate metrics by understanding the practical challenges associated with the development of a significant software system.

Name of the Course: Discrete Mathematics

Course.No	Outcomes
C213.1	Distinguish between Propositional Logic, deriving valid proofs of interface and checking the validity of interfaces.
C213.2	Illustrate by examples the basic terminology of sets, relations, functions and algebraic structures along with their associated operations.
C213.3	Demonstrate basics of counting, principles of permutations, combinations, applying inclusion/exclusion principle and the pigeonhole methodology in solving counting problems.
C213.4	Demonstrate the generating functions, write recurrence relations and apply various techniques solving recurrence relation.
C213.5	Transform a problem in computer science and engineering as a graph to solve it efficiently using concepts of graph theory.

Name of the Course: Data Structures

Course.No	Outcomes
C214.1	Implement various kinds of sorting techniques and apply appropriate techniques for solving a given problem
C214.2	Implement various data structures using arrays, linked lists
C214.3	Develop ADT necessary for solving problems based on Stacks and Queues
C214.4	Implement binary trees, general tree structures, advanced search trees, heaps, graphs.
C214.5	Implement hash functions and handle collisions.

Name of the Course: Data Base Management System

Course.No	Outcomes
C215.1	Design ER-models to represent simple database application scenarios and Construct database queries using SQL.
C215.2	Construct database queries using relational algebra and calculus.
C215.3	Recognize and identify the use of normalization and functional dependency in database design.
C215.4	Apply the concept of a database transaction and related concurrent recovery facilities.
C215.5	Apply and relate how to evaluate a set of queries in query processing.

Name of the Course: Data Structure Lab

Course.No	Outcomes
C216.1	Perform Sorting and Searching and be able to justify which sorting and searching techniques is suitable
C216.2	Apply stacks and queues in solving problems
C216.3	Evaluate binary trees, general tree structures, advanced search trees, heaps, graphs.
C216.4	Apply hash functions and handle collisions.
C216.5	Implement various kinds of sorting techniques and apply appropriate techniques for solving a given problem.

Name of the Course: Data Base Management System Lab

Course.No	Outcomes
C217.1	Design database schema for a given application and apply normalization
C217.2	Gather skills in using SQL commands for data definition and data manipulation.
C217.3	Demonstrate creation and usage of Views and Stored Procedures using SQL.
C217.4	Develop solutions for database applications using procedures, cursors and triggers
C217.5	To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modelling, designing, and implementing a DBMS.

Name of the Course: Data Visualization Lab

Course.No	Outcomes
C218.1	Understand how to import data into Tableau.
C218.2	Understand Tableau concepts of Dimensions and Measures.
C218.3	Develop Programs and understand how to map Visual Layouts and Graphical Properties.
C218.4	Create a Dashboard that links multiple visualizations.
C218.5	Use graphical user interfaces to create Frames for providing solutions to real-world problems

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COURSE OUTCOMES
A.Y 2025-26

III Year-I Sem- (V Semester)

Name of the Course: Operating Systems

Course.No	Outcomes
C311.1	Understand the fundamental concepts and Functions of operating system.
C311.2	Analyse various scheduling algorithms.
C311.3	Understand deadlock, prevention and avoidance algorithms.
C311.4	Compare and contrast various memory management schemes.
C311.5	Understand the functionality of file systems and perform administrative tasks on Linux Servers

Name of the Course: Automata Theory Language and Computation

Course.No	Outcomes
C312.1	Design a Finite Automaton and establish its correspondence with regular languages.
C312.2	Analyze Regular Expressions and Prove a given language is regular or otherwise. Describe Closure and Decision Properties of Regular Languages.
C312.3	Develop Context Free Grammars, Design Pushdown Automata and establish equivalence of language of PDA and CFG.
C312.4	Convert the given CFG into CNF and GNF and explain the properties of Context Free Languages.
C312.5	Design Turing Machine for the given language and illustrate it's working. Differentiate Decidable and Undecidable problems.

Name of the Course: Artificial Intelligence

Course.No	Outcomes
C313.1	Use appropriate search algorithms for any AI problems
C313.2	Represent a problem using first order and predicate logics.
C313.3	Provide the apt agent strategy to solve a given problem
C313.4	Design software agents to solve a problems
C313.5	Design applications for NLP that use Artificial Intelligence.

Name of the Course: Software Testing Methodology

Course.No	Outcomes
C314.1	Gain the basic knowledge of Testing.
C314.2	Acquire the knowledge of White Box Testing methods
C314.3	Test an application using Functional Testing.
C314.4	Use Object Oriented Testing and Millennium Testing methods
C314.5	Solve software complexities with best practices

Name of the Course: Disaster Preparedness and Management

Course.No	Outcomes
C31.1	Apply the concepts of disaster management to evaluate a disaster situation
C31.2	Classify the various categories of disasters and their specific characteristics.
C31.3	Select appropriate pre-disaster,during disaster and post disaster measures and framework.
C31.4	Apply the geo informatics technology in disaster situation.
C31.5	Identify the disaster management acts and frameworks specific to india relevant to a situation.

Name of the Course: Artificial Intelligence Lab

Course.No	Outcomes
C316.1	After learning the AI concepts the student must be able to design and implement AI solutions searching techniques using AI
C316.2	Able to know about facts of querying.
C316.3	Be capable of confidently applying tree mechanisms using AI with Neural Network.
C316.4	Be capable of performing experiments in Machine Learning using real-world data.
C316.5	Be capable to implement classifiers and Regression algorithms.

Name of the Course: Operating System Lab

Course.No	Outcomes
C317.1	Evaluate the performance of different types of CPU scheduling algorithms.
C317.2	Implement producer-consumer problem, reader-writers problem, Dining philosopher's problem.
C317.3	Simulate Banker's algorithm for deadlock avoidance.
C317.4	Implement paging replacement and disk scheduling techniques.
C317.5	Use different system calls for writing application program

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COURSE OUTCOMES

A.Y- 25-26

Year IV Yr – I Semester (VII Semester)

Name of the Course: Distributed System

Course.No	Outcomes
C411.1	List the principles of distributed systems and describe the problems and challenges associated with these principle.
C411.2	To know about interposes communication and remote communication.
C411.3	Understand Distributed Computing techniques, Synchronous and Processes.
C411.4	Understand Distributed File Systems Apply Distributed web-based systems. Understand the importance of security in distributed system
C411.5	To know distributed service-oriented architecture.

Name of the Course: Data Mining

Course.No	Outcomes
C412.1	Organize and prepare the data needed for data mining using preprocessing techniques
C412.2	Implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on a given data set
C412.3	Define and apply metrics to measure the performance of various data mining algorithms
C412.4	Understanding the importance of data mining application and using the most appropriate approach or trend for the realistic strategy
C412.5	Able to know data mining methodologies and trends

Name of the Course: Machine Learning

Course. No	Outcomes
C413.1	Understand the concept of computational Intelligence like machine Learning.
C413.2	Ability to get the skill to apply machine learning techniques to address the real time problems in different areas.
C413.3	Understand the neural network & its usage in machine Learning applications.
C413.3	Identify different genetic algorithms & apply learning sets of rules.
C413.4	Apply Inductive & analytical Learning to initialize the hypothesis.

Name of the Course: Deep Learning

Course. No	Outcomes
C414.1	To understand the fundamentals of deep learning.
C414.2	To be able to understand deep learning algorithms and design neural network.
C414.3	To be able to train and implement a neural network.
C414.4	To be able to have knowledge about convolutional neural networks.
C414.5	To be able to apply neural networks in various fields.

Name of the Course: Management of Start Up's

Course. No	Outcomes
C415.1	Understand Indian Industrial Environment ,Entrepreneurship and Economic growth,small and large scale industries,types and forms of Enterpises.
C415.2	Identify the characteristics of Entrepreneurs,Emergence of first generation Entrepreneurs,conception and evaluation of ideas and their sources.
C415.3	Practice the principles of project formulation,analysis of market demand,financial and profitability analysis and Technical analysis.

C415.4	Understand the concept of Intellectual Property Rights and Patents.
C415.5	Comprehend the aspects of Start-Ups.

Name of the Course: Distributed System Lab

Course. No	Outcomes
C416.1	Write programs that communicate data between two hosts Configure NFS
C416.2	To implement inter process communication and remote communication
C416.3	Use distributed data processing frameworks and mobile application tool kits
C416.4	Write a program to implement date service using RPC.
C416.5	Develop an application using three -tier architectures

Name of the Course: Data Mining Lab

Course. No	Outcomes
C417.1	Apply preprocessing statistical methods for any given raw data.
C417.2	Gain practical experience of constructing a data warehouse.
C417.3	Implement various algorithms for data mining in order to discover interesting patterns.
C417.4	From large amounts of data
C417.5	Apply OLAP operations on data cube construction