Course Outcomes

Academic Year – 2025-2026 **Semester: III (Autonomous)**

Student will be able to

CO. No.	Description
	Course Outcomes:C31—Mathematics-III (Probability & Statistics) (U24MA301)
C31.1	Determine Probabilities with respect to Random variables in probability distributions.
C31.2	Compute the parameters of some standard discrete probability distribution, Normal distribution s and moments.
C31.3	Calculate the statistical parameters of uniform and exponential probability distributions
C31.4	Find the parameters related to correlation, regression and obtain the knowledge of sampling Theory with context to test of hypothesis.
C31.5	Analyze and check the validity of statement using testing of hypothesis for various parameters and goodness of fit.

CO. No.	Description
	Course Outcomes:C32--Data Structures (U24CS302)
C32.1	Understand the fundamental concepts of data structures such as arrays, stacks, queues, and linked lists.
C32.2	Use linear and non-linear data structures for solving computational problems.
C32.3	Analyze and compare the performance of different searching and sorting algorithms.
C32.4	Design and implement various tree and graph data structures for real-world problems.
C32.5	Develop efficient programs using data structures and algorithms to optimize time and space complexity.

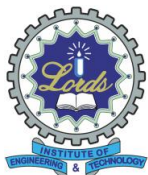| CO. No.	Description
	Course Outcomes:C33–Digital Electronics & Computer Organization (U24EC304)
C33.1	Demonstrate the number system conversions and simplify Boolean functions
C33.2	Analyze and simplify Boolean expressions using Karnaugh-maps, tabulation method and design combinational circuits
C33.3	Analyze and design various Sequential circuits.
C33.4	Illustrate the operation of digital computer and to understand its organization
C33.5	Understand the various memory types.
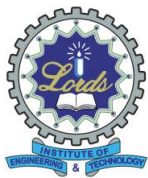
CO. No.	Description
	Course Outcomes: C34-- English For TechnicalCommunication (U24EN301)
C34.1	Apply technical communication skills effectively.
C34.2	Adapt different types of official correspondence successfully.
C34.3	Construct report writing productively using various techniques.
C34.4	Develop the skills of manual writing adequately.
C34.5	Interpret the information transfer from verbal to non-verbal data and vice-versa completely.

CO. No.	Description
	Course Outcomes: C35-- Database Management Systems (U24IT301)
C35.1	Understand the role of database management system in an organization and learn the database concepts
C35.2	Design databases using data modeling and Logical database design techniques.
C35.3	Construct database queries using relational algebra and calculus and SQL
C35.4	Understand the concept of a database transaction and related concurrent, recovery facilities.
C35.5	Understand the concepts of Triggers and Stored Procedures.

CO. No.	Description
	Course Outcomes: C36 Database Management Systems lab (U24IT3L1)
C36.1	Design database schema for a given application and apply normalization.
C36.2	Gather skills in using SQL commands for data definition and data manipulation.
C36.3	Demonstrate creation and usage of Views and Stored Procedures using SQL.
C36.4	Develop solutions for database applications using procedures, cursors and triggers.
C36.5	To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modelling, designing, and implementing a DBMS.

CO. No.	Description
	Course Outcomes: C37--Soft Skills & Employability Skills Lab (U24EN3L1)
C37.1	Utilize soft skills at professional level effectively.
C37.2	Function efficiently in multidisciplinary settings by using leadership skills.
C37.3	Build confidence through interpersonal skills utterly.
C37.4	Write Resume/CV and cover letter comprehensively.

CO. No.	Description
C37.5	Enhance the skills of group discussion and interview perfectly.
	Course Outcomes: C38—Data Structures Lab (U24CS3L1)
C38.1	Understand and implement basic data structures like arrays, stacks, queues, and linked lists (singly, doubly, and circular).
C38.2	Implement and analyze various sorting and searching algorithms, comparing their efficiency.
C38.3	Implement and manipulate non-linear data structures like trees (especially Binary Search Trees) and graphs.
C38.4	Analyze the performance of algorithms using asymptotic notations and choose appropriate data structures for problem-solving.
C38.5	Apply data structures and algorithms to solve real-world problems and develop efficient solutions.
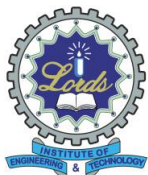
Course Outcomes

Academic Year – 2025-2026   **Semester: V (Autonomous)**

Student will be able to

CO. No.	Description
	Course Outcomes: C51-- Business Economics and Financial Analysis (U23MB501)
C51.1	Apply the concepts of business and economics during his professional and personal life.
C51.2	Understand the elasticity of the demand of the product, different types, and measurement of elasticity of demand and factors influencing on elasticity of demands.
C51.3	Recognize the Production function, features of Iso-Quants and Iso-Costs, different types of internal economies, external economies and law of returns with appropriate examples.
C51.4	Prepare the financial statements of the firm.
C51.5	To Analyze the financial statements using ratio analysis and cash flow techniques.

CO. No.	Description
	Course Outcomes:C52-- Automata Theory, Language and Computation (U23CS501)
C52.1	Design a Finite Automaton and establish its correspondence with regular languages.
C52.2	Analyze Regular Expressions and Prove a given language is regular or otherwise. Describe Closure and Decision Properties of Regular Languages.
C52.3	Develop Context Free Grammars, Design Pushdown Automata and establish equivalence of language of PDA and CFG.
C52.4	Convert the given CFG into CNF and GNF and explain the properties of Context Free Languages.
C52.5	Design Turing Machine for the given language and illustrate it's working. Differentiate Decidable and Undecidable problems.

CO. No.	Description
	Course Outcomes:C53-Machine Learning (U23CM501)
C53.1	Understand the basic concepts of Data Science and techniques of Machine Learning.
C53.2	Apply exploratory data analysis and Data preparation and preprocessing on different datasets and Evaluate Statistical measurements of the given data.
C53.3	Evaluate the performance of regression problems
C53.4	Evaluate the results of the classification algorithms.

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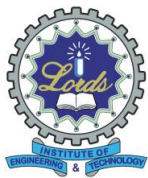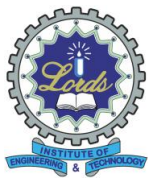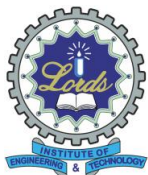**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING - AIML**

CO. No.	Description
C53.5	Design and implement machine learning solutions SVM, ensemble method and Instance based learning.
	Course Outcomes:C54- Foundation of Data Science (U23CM505)
C54.1	Explain the key concepts of data science, including its benefits, processes, and basic statistical descriptions
C54.2	Summarize different types of data and variables using tables, graphs, and statistical measures.
C54.3	Apply correlation and regression techniques to understand relationships between variables.
C54.4	Analyze different statistical measures and preprocessing techniques
C54.5	Understand the basics of R Programming environment: R language, R-studio and R packages
CO. No.	**Description**
	Course Outcomes:C55- Disaster Preparedness and Management (U23CE510)
C55.1	Understand the fundamental concepts of disasters, hazards, vulnerability, risk, and disaster management.
C55.2	Classify various types of disasters and analyze their causes and global disaster trends including climate change impacts.
C55.3	Explain the disaster management cycle and apply risk assessment, mapping, prevention, and early warning strategies.
C55.4	Demonstrate preparedness, emergency response operations, and post-disaster rehabilitation and recovery processes.
C55.5	Evaluate India's disaster management policies, institutional mechanisms, and the role of science and technology in disaster risk reduction
CO. No.	**Description**
	Course Outcomes:C56- Scripting Language Lab (U23CS5L3)
C56.1	Design and develop web Applications using HTML, CSS, XML, JavaScript, PHP, SERVLETS, JSP and protocols.
C56.2	Design and implement dynamic websites with good aesthetic sense of designing
C56.3	Create web pages using HTML and Cascading Styles sheets
C56.4	Analyze a web page and identify its elements and attributes.
C56.5	Develop JSP applications implementing Session management and Data base Connectivity

CO. No.	Description
	Course Outcomes:C57- Machine Learning Lab (U23CM5L1)
C57.1	Understand basic operations in pandas and numpy.
C57.2	Apply Exploratory Data Analysis
C57.3	Analyze and implement necessary action in Data Preprocessing in Machine learning
C57.4	Build a linear regression model using python and predict target on unseen data
C57.5	Implement k-nearest neighbor's classification and Decision Tree classification.
CO. No.	Description
	Course Outcomes: C58—Aptitude and Reasoning Skills lab (U23MA5L1)
C58.1	Acquire the knowledge of Data analysis and its interpretation through percentages and measures of central tendency.
C58.2	Calculate the problems related to number series and reasoning ability.
C58.3	Analyze the number system pattern and determine profit and losses.
C58.4	Evaluate proportions and understand time framework situations.
C58.5	Compute problems based on combinatorics, clock a calendar.

Course Outcomes

Academic Year – 2025-2026   **Semester: VII (Autonomous)**

Student will be able to

CO. No.	Description
	Course Outcomes:C71- Information Security (U21CM701)
C71.1	Describe the steps in Security Systems development life cycle.
C71.2	Understand the legal and ethical issues, common threats and attack to information systems
C71.3	Identify security needs using risk management and choose the appropriate risk control strategy based on business needs
C71.4	Use the basic knowledge of security frameworks in preparing security blue print for the organization
C71.5	Use ethical hacking tools to study attack patterns and cryptography and secure communication protocols

CO. No.	Description
	Course outcomes:C72- Deep Learning Techniques (U21CM702)
C72.1	Understand the fundamentals of deep learning.
C72.2	Understand deep learning algorithms and design neural network.
C72.3	Train and implement a neural network.
C72.4	Gain knowledge about convolutional neural networks.
C72.5	Apply neural networks in various fields.

CO. No.	Description
	Course Outcomes:C73- Mobile computing (U21CE705)
C73.1	Infer knowledge about mobile communication and its services
C73.2	Identify several communication accessing techniques
C73.3	Determine the functionality of MAC, Network layer identifying a routing protocol for given Adhoc Networks
C73.4	Identify database issues using hoarding techniques
C73.5	Solve database issues using hoarding techniques

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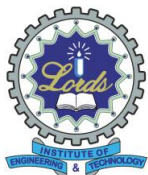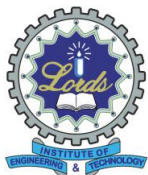### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING - AIML

CO. No.	Description
	Course Outcomes:C74- Road Safety Engineering (U21CE709)
C74.1	Understand the fundamentals of traffic safety analysis.
C74.2	Analyze Accident Data.
C74.3	Remember the concepts of Road Safety in Urban transport.
C74.4	Apply Crash Reduction Techniques.
C74.5	Design of Urban Infrastructure considering Safety Aspects.

CO. No.	Description
	Course Outcomes:C75- Management of Start Ups (U21MB703)
C75.1	Understand Indian Industrial Environment, Entrepreneurship and Economic growth, Small and Large Industries, Types and forms of enterprises.
C75.2	Identify the characteristics of entrepreneurs, Emergence of first generation entrepreneurs, Conception and evaluation of ideas and their sources.
C75.3	Practice the principles of project formulation, Analysis of market demand, Financial and profitability analysis and Technical analysis.
C75.4	Understand the concept of Intellectual Property Rights and Patents.
C75.5	Comprehend the aspects of Start-Ups.

CO. No.	Description
	Course Outcomes:C76- Information Security Lab (U21CM7L1)
C76.1	Implement the cipher techniques
C76.2	Develop the various security algorithms
C76.3	Use different open source tools for network security and analysis
C76.4	Apply network security concepts in various real world scenarios.
C76.5	Analyze network security threats through honeypot deployment and rootkit experimentation.

CO. No.	Description
	Course Outcomes:C77- Deep Learning Techniques Lab (U21AM7L1)
C77.1	Develop ANN without using Machine Learning/Deep learning libraries.
C77.2	Understand the Training ANN model with back propagation.
C77.3	Develop model for sequence learning using RNN.
C77.4	Develop image classification model using ANN and CNN.
C77.5	Generate a new image with auto-encoder and GAN.

CO. No.	Description
	Course Outcomes:C78- Major Project Phase -I (U21CM7P1)

C78.1	Possess a solid understanding of project management principles and methodologies applicable to engineering projects.
C78.2	Demonstrate proficiency in conducting literature reviews, research, and preliminary design activities.
C78.3	Develop comprehensive project proposals that effectively communicate project objectives, methodologies, and timelines.
C78.4	Apply engineering tools and software for modeling, simulation, and analysis in the context of their project requirements.
C78.5	Communicate project ideas, progress, and findings clearly and persuasively through written reports, presentations, and other media.