

# LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY (UGC Autonomous)

Estd: 2003, Approved by AICTE New Delhi, Affiliated to Osmania University

Survey No. 32, Himayat Sagar, Near TG Police Academy, Hyderabad-500091, Telangana

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

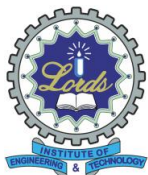
### Course Outcomes

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.



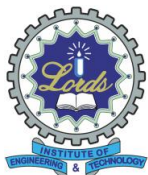
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CO. No.	Description
	<b>Course Outcomes: C34-- English For Technical Communication (U24EN301)</b>
<b>C34.1</b>	Apply technical communication skills effectively.
<b>C34.2</b>	Adapt different types of official correspondence successfully.
<b>C34.3</b>	Construct report writing productively using various techniques.
<b>C34.4</b>	Develop the skills of manual writing adequately.
<b>C34.5</b>	Interpret the information transfer from verbal to non-verbal data and vice-versa completely.
CO. No.	Description
	<b>Course Outcomes: C35-- Database Management Systems (U24IT301)</b>
<b>C35.1</b>	Understand the role of database management system in an organization and learn the database concepts
<b>C35.2</b>	Design databases using data modeling and Logical database design techniques.
<b>C35.3</b>	Construct database queries using relational algebra and calculus and SQL
<b>C35.4</b>	Understand the concept of a database transaction and related concurrent, recovery facilities.
<b>C35.5</b>	Understand the concepts of Triggers and Stored Procedures.
CO. No.	Description
	<b>Course Outcomes: C36 Database Management Systems lab (U24IT3L1)</b>
<b>C36.1</b>	Design database schema for a given application and apply normalization.
<b>C36.2</b>	Gather skills in using SQL commands for data definition and data manipulation.
<b>C36.3</b>	Demonstrate creation and usage of Views and Stored Procedures using SQL.
<b>C36.4</b>	Develop solutions for database applications using procedures, cursors and triggers.
<b>C36.5</b>	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
	<b>Course Outcomes: C37--Soft Skills &amp; Employability Skills Lab (U24EN3L1)</b>
<b>C37.1</b>	Utilize soft skills at professional level effectively.
<b>C37.2</b>	Function efficiently in multidisciplinary settings by using leadership skills.
<b>C37.3</b>	Build confidence through interpersonal skills utterly.
<b>C37.4</b>	Write Resume/CV and cover letter comprehensively.



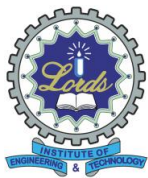
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<b>C37.5</b>	Enhance the skills of group discussion and interview perfectly.
<b>CO. No.</b>	<b>Description</b>
	<b>Course Outcomes: C38—Data Structures Lab (U24CS3L1)</b>
<b>C38.1</b>	Understand and implement basic data structures like arrays, stacks,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



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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**



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

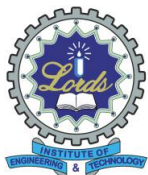
### Course Outcomes

Academic Year – 2025-2026

Semester: VII (Autonomous)

Student will be able to

CO. No.	Description
<b>Course Outcomes:C71- Information Security (U21CM701)</b>	
<b>C71.1</b>	Describe the steps in Security Systems development life cycle.
<b>C71.2</b>	Understand the legal and ethical issues, common threats and attack to information systems
<b>C71.3</b>	Identify security needs using risk management and choose the appropriate risk control strategy based on business needs
<b>C71.4</b>	Use the basic knowledge of security frameworks in preparing security blue print for the organization
<b>C71.5</b>	Use ethical hacking tools to study attack patterns and cryptography and secure communication protocols
CO. No.	Description
<b>Course outcomes:C72- Deep Learning Techniques (U21CM702)</b>	
<b>C72.1</b>	Understand the fundamentals of deep learning.
<b>C72.2</b>	Understand deep learning algorithms and design neural network.
<b>C72.3</b>	Train and implement a neural network.
<b>C72.4</b>	Gain knowledge about convolutional neural networks.
<b>C72.5</b>	Apply neural networks in various fields.
CO. No.	Description
<b>Course Outcomes:C73- Mobile computing (U21CE705)</b>	
<b>C73.1</b>	Infer knowledge about mobile communication and its services
<b>C73.2</b>	Identify several communication accessing techniques
<b>C73.3</b>	Determine the functionality of MAC, Network layer identifying a routing protocol for given Adhoc Networks
<b>C73.4</b>	Identify database issues using hoarding techniques
<b>C73.5</b>	Solve database issues using hoarding techniques



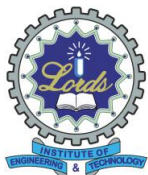
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CO. No.	Description
	<b>Course Outcomes:C74- Road Safety Engineering (U21CE709)</b>
<b>C74.1</b>	Understand the fundamentals of traffic safety analysis.
<b>C74.2</b>	Analyze Accident Data.
<b>C74.3</b>	Remember the concepts of Road Safety in Urban transport.
<b>C74.4</b>	Apply Crash Reduction Techniques.
<b>C74.5</b>	Design of Urban Infrastructure considering Safety Aspects.
CO. No.	Description
	<b>Course Outcomes:C75- Management of Start Ups (U21MB703)</b>
<b>C75.1</b>	Understand Indian Industrial Environment, Entrepreneurship and Economic growth, Small and Large Industries, Types and forms of enterprises.
<b>C75.2</b>	Identify the characteristics of entrepreneurs, Emergence of first generation entrepreneurs, Conception and evaluation of ideas and their sources.
<b>C75.3</b>	Practice the principles of project formulation, Analysis of market demand, Financial and profitability analysis and Technical analysis.
<b>C75.4</b>	Understand the concept of Intellectual Property Rights and Patents.
<b>C75.5</b>	Comprehend the aspects of Start-Ups.
CO. No.	Description
	<b>Course Outcomes:C76- Information Security Lab (U21CM7L1)</b>
<b>C76.1</b>	Implement the cipher techniques
<b>C76.2</b>	Develop the various security algorithms
<b>C76.3</b>	Use different open source tools for network security and analysis
<b>C76.4</b>	Apply network security concepts in various real world scenarios.
<b>C76.5</b>	Analyze network security threats through honeypot deployment and rootkit experimentation.
CO. No.	Description
	<b>Course Outcomes:C77- Deep Learning Techniques Lab (U21AM7L1)</b>
<b>C77.1</b>	Develop ANN without using Machine Learning/Deep learning libraries.
<b>C77.2</b>	Understand the Training ANN model with back propagation.
<b>C77.3</b>	Develop model for sequence learning using RNN.
<b>C77.4</b>	Develop image classification model using ANN and CNN.
<b>C77.5</b>	Generate a new image with auto-encoder and GAN.



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### **DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

<b>CO. No.</b>	<b>Description</b>
	<b>Course Outcomes:C78- Major Project Phase -I (U21CM7P1)</b>
<b>C78.1</b>	Possess a solid understanding of project management principles and methodologies applicable to engineering projects.
<b>C78.2</b>	Demonstrate proficiency in conducting literature reviews, research, and preliminary design activities.
<b>C78.3</b>	Develop comprehensive project proposals that effectively communicate project objectives, methodologies, and timelines.
<b>C78.4</b>	Apply engineering tools and software for modeling, simulation, and analysis in the context of their project requirements.
<b>C78.5</b>	Communicate project ideas, progress, and findings clearly and persuasively through written reports, presentations, and other media.