Course Outcomes

Academic Year – 2023-2024   **Semester: III (A)**

Student will be able to

CO. No.	Description
Course Outcomes: C31- English For Technical Communication(U21EN301)	
C31.1	Apply technical communication skills effectively
C31.2	Adapt different types of official correspondence
C31.3	Construct report writing using various techniques
C31.4	Develop adequate skills of manual writing
C31.5	Interpret the information transfer from verbal to non-verbal data and vice-versa

CO. No.	Description
Course Outcomes: C32 – Digital Logic Design(U21EC305)	
C32.1	Demonstrate the number system conversions and simplify Boolean functions.
C32.2	Analyze and simplify Boolean expressions using karnaugh-maps and tabulation method.
C32.3	Analyze and Design various combinational circuits
C32.4	Understanding of various Sequential circuits
C32.5	Analyze and Design of counters and understanding FSM

CO. No.	Description
Course Outcomes: C33 – Mathematics-III (Probability and Statistics)(U21MA301)	
C33.1	Determine Probability, Random variables, distributions and its application
C33.2	Apply the knowledge of some standard discrete probability distributions and moments
C33.3	Calculate parameters of standard continuous probability distributions
C33.4	Find the parameters and concepts of correlation, regression and obtain the knowledge of sampling Theory with context to test of hypothesis.
C33.5	Analyze and check the validity of statement using testing of hypothesis for various parameters and goodness of fit.

CO. No.	Description
Course Outcomes: C34 – Data Structures(U21CS302)	
C34.1	Implement various data structures using arrays, linked lists
C34.2	Develop ADT necessary for solving problems based on Stacks and Queues
C34.3	Implement binary trees, general tree structures, advanced search trees, heaps, graphs.
C34.4	Implement hash functions and handle collisions
C34.5	Implement various kinds of sorting techniques and apply appropriate techniques for solving a given problem.

CO. No.	Description
Course Outcomes: C35 – Python Programming(U21CM301)	
C35.1	Develop essential programming skills in computer programming concepts like data types, containers.
C35.2	Apply the basics of programming in the Python language.
C35.3	Solve coding tasks related conditional execution, loops.
C35.4	Acquire coding tasks related to the fundamental notions and techniques used in object oriented
C35.5	Write basic programs related to basic library modules.

CO. No.	Description
Course Outcomes: C36 – Advanced Communication Skills Lab(U21EN3L1)	
C36.1	Devolve listening skills and soft skills utterly
C36.2	Build confidence through body language and speaking skills thoroughly
C36.3	Enhance skills of group discussion and interview completely
C36.4	Write resume/ CV and cover letter effectively
C36.5	Analysis and comprehend the text inferentially

CO. No.	Description
Course Outcomes: C37 – MATLAB(U21EC3L4)	
C37.1	Learn features of Mat lab as a programming language, its use as a simulation tool, and write simple programs to solve Scientific, Mathematics, and Engineering problems. 2. 3. 4. 5.
C37.2	Generate Scripts and functions, and interactive computations in Mat lab development environment.
C37.3	Perform and Compute different operations using Matlab.
C37.4	Use basic flow control functions efficiently.
C37.5	Create 2D and 3D plotting functions.

CO. No.	Description
Course Outcomes: C38 – Data Structures Lab(U21CS3L1)	
C38.1	Understand essential concepts of simple linear and nonlinear data structures.
C38.2	Analyze and implement programming skills to implement sorting and searching algorithms
C38.3	Apply the suitable data structures for the given real world problems.
C38.4	Acquire knowledge in practical applications of data structures.
C38.5	Provide solutions for various graphical concepts.

CO. No.	Description
Course Outcomes: C39 – Python Programming Lab(U21CM3L1)	
C39.1	Summarize the fundamental concepts of python programming.
C39.2	Outline the control statements and functions by writing python program.
C39.3	Demonstrate file handling operations and packages.
C39.4	Interpret object-oriented programming in python.
C39.5	Apply the suitable libraries to solve simple problems.

Course Outcomes

Student will be able to

CO. No.	Description
Course Outcomes:C51 – Business Economics and Financial Analysis(U21MB501)	
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 demand.
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:C5-Automata Theory, Languages & Computation(U21CM501)	
C52.1	Gain knowledge of the various abstract machines
C52.2	Use regular languages and regular expression for constructing different finite state machines
C52.3	Understand and design different types of grammars
C52.4	Construct Push down Automata
C52.5	Construct Turing Machine
C52.6	Distinguish decidability and undecidability
CO. No.	**Description**
Course Outcomes: C53 – Design & Analysis of Algorithms(U21CS501)	
C53.1	Identify asymptotic notations and basic efficiency classes.
C53.2	Solve problems using various techniques like divide-and-conquer and transfer-and-conquer.
C53.3	Use different algorithms like TSP, Floyd's etc. to solve real world problems.
C53.4	Introduce the P and NP classes.
C53.5	Develop solutions for n - Queens problem, Subset – Sum Problem, Assignment problem, Knapsack problem etc.

CO. No.	Description
Course Outcomes: C54 – Software Engineering(U21IT501)	
C54.1	Define different software development processes and their usability in different problem domain.
C54.2	Understand the process of requirement collection, analysing, modelling requirements for effective communication with stakeholders.
C54.3	Design and develop the architecture of real world problems toward developing a blue print for implementation.
C54.4	Understand the concepts of software equality, testing and maintenance.
C54.5	Discuss the concepts related to Risk Management and software project estimation.

CO. No.	Description
Course Outcomes:C55 – Disaster Preparedness and Management(U21CE509)	
C55.1	Apply the concept of disaster management to evaluate a disaster situation.
C55.2	Classify the various categories of disasters and their specific characteristics.
C55.3	Select appropriate pre disaster, during disaster and post disaster measures and framework.
C55.4	Apply the geo informatics technology in disaster situation.
C55.5	Identify the disaster management acts and framework specific to India relevant to a situation.

CO. No.	Description
Course Outcomes:C56 – Software Engineering Lab(U21IT5L1)	
C56.1	Translate end-user requirements into system and software requirements.
C56.2	Generate a high-level design of the system from software requirements.
C56.3	Identify the risks associated with the software developed.
C56.4	Design the test case to test the software developed.
C56.5	Experience of testing problems and will be able to develop a simple testing report.

CO. No.	Description
Course Outcomes:C57 – Scripting Languages Lab(U21IT5L2)	
C57.1	Understand, analyze and apply the role of languages like HTML, CSS, XML, JavaScript, PHP, SERVLETS, JSP and protocols in the workings of the web and web applications
C57.2	Design and implement dynamic websites with good aesthetic sense of designing
C57.3	Create web pages using HTML and Cascading Styles sheets
C57.4	Analyze a web page and identify its elements and attributes.
C57.5	Develop JSP applications implementing Session management and Data base Connectivity.

CO. No.	Description
Course Outcomes:C58– Internship(U21IT5P1)	
C58.1	Design and develop a small and simple product in hardware or software.
C58.2	Complete the task or realize a pre specified target, with a specified scope.
C58.3	Learn to find alternate viable solutions for a given problem and evaluate these alternatives with reference to pre specified criteria.
C58.4	Gain knowledge of working practives withing industrial / R&D environments.
C58.5	Implement the selected solution and document the same

CO. No.	Description
Course Outcomes:C59- Aptitude and Reasoning(U21MA5L1)	
C59.1	Build proficiency in quantitative reasoning
C59.2	Improve critical thinking skills
C59.3	Enhance analytical skills
C59.4	Demonstrate quantitative aptitude concepts
C59.5	Adapt principles of quantitative aptitude to achieve qualitative results

LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY
Department of Information Technology

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CO. No.	Description
Course Outcomes:C71- Internet of things(PC701IT)	
C71.1	Demonstrate the basic principles as well as the core concepts related to the internet of things
C71.2	Analyze the core architectural concepts to meet the challenges in implementing the connected devices.
C71.3	Understand different types of sensors and programming aspects for the domain-specific IOT.
C71.4	Able to differentiate between the Network layer protocols and Applications layer protocols.
C71.5	Design an IOT network and push the real-time data to the cloud server.

CO. No.	Description
Course Outcomes:C72 – Big data analytics(PC702IT)	
C72.1	Demonstrate big data and use cases from selected business domains.
C72.2	Apply the knowledge of NoSQL big data management and experiment with Install, configure, and run Hadoop and HDFS.
C72.3	Apply the concept of Casandra and MongoDB with the procedural approach.
C72.4	Analyse map-reduce analytics using Hadoop
C72.5	Adapt Hadoop related tools such as HBase, Cassandra, Pig, and Hive for big data Analytics.

CO. No.	Description
Course Outcomes: C73 – Cyber security(PE732IT)	
C73.1	Define and Analyze different cyber security related issues, cybercrimes, cyber stalking and The Indian and Global laws.
C73.2	Understand cyber security, and usage of modern tools and types of cyber-attacks.
C73.3	Examine the legal perspectives and Indian cybercrime laws and challenges.
C73.4	Implement various security and privacy mechanisms to safeguard society and an organizations.
C73.5	Evaluate cyber security challenges, privacy and protection Indicators to provide an ecosystem for safe computing.

CO. No.	Description
Course Outcomes: C74a– Blockchain Technologies(PE743IT)	
C74a.1	Demonstrate the ability to compare and contrast distributed database and Blockchain.
C74a.2	Explain and experiment with the design principles and mechanism, of Bitcoin and Ethereum mining.
C74a.3	Design, Build and Deploy a Distributed smart contract application on Ethereum using solidity programming Language.
C74a.4	Examine various crypto currency regulations and justify how BlockChain is applied in various domains
C74a.5	Understand Ethereum Architecture.

CO. No.	Description
Course Outcomes: C74b – Deep Learning(PE744IT)	
C74b.1	Understand connection of deep learning with Machine learning.
C74b.2	Remember the various concepts related to Neural Networks.
C74b.3	Understand the Deep Neural Network techniques.
C74b.4	Create different parameters for Regularization for Deep Learning.
C74b.5	Apply Optimized strategy for training Deep Models

CO. No.	Description
Course Outcomes: C75 – Start Up Entrepreneurship(OE701ME)	
C75.1	Understand Indian industrial environment ,entrepreneurship and economic growth, small and large scale industries, types and forms of enterprises.
C75.2	Identify the characteristics of enterpreneurs, emergence of first generation enterpreneurs, 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 – Internet Of Things Lab(PC751IT)	
C76.1	Use microcontroller based embedded platforms in IOT.
C76.2	Interface wireless peripherals for exchange of data.
C76.3	Make use of cloud platform to upload and analyze any sensor data.
C76.4	Use of Devices, Gateways and Data Management in IOT.
C76.5	Use the knowledge and skills acquired during the course to build and test a complete, working IOT system involving prototyping, programming and data analysis.

CO. No.	Description
Course Outcomes: C77 – Project Work-1(PW752IT)	
C77.1	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.
C77.2	Evaluate different solutions based on economic and technical feasibility
C77.3	Effectively plan a project and confidently perform all aspects of project management
C77.4	Demonstrate effective written and oral communication skills
C77.5	Analyse the problem-solving skills, critical thinking, and the ability to tackle engineering challenges.

CO. No.	Description
Course Outcomes: C78 – Summer Internship(SI651IT)	
C78.1	Get Practical experience of software design and development, and coding practices within Industrial/R&D Environments.
C78.2	Gain working practices within Industrial/R&D Environments.
C78.3	Prepare reports and other relevant documentation
C78.4	Create and apply the soft skills towards further Learning in Academics.
C78.5	Creates a professional network within industry. Connecting with professionals, mentors, and colleagues for future job opportunities, provide valuable insights, and offer guidance as you navigate your career path