LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of CSE-Data Science

Course Outcomes

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

Student will be able to

CO No.	Description
Course Outcomes: C41-MIII (Mathematics of Data Science) (U21MA402)	
C42.1	Compute and interpret descriptive statistics.
C42.2	Evaluate random processes which occur in engineering applications governed by the Binomial, Poisson, Normal and Exponential distributions.
C42.3	Apply Inferential Statistics to make predictions or judgments about the population from which the sample data is drawn.
C42.4	Analyze and check the validity of statement using testing of hypothesis for various parameters and ANOVA technique.
C42.5	Interpret Time series data.

CO No.	Description
Course Outcomes: C42 – English for Technical Communications(U21EN401)	
C42.1	Apply technical communication skills effectively
C42.2	Adapt different types of official correspondence
C42.3	Construct report writing using various techniques
C42.4	Develop adequate skills of manual writing
C42.5	Interpret the information transfer from verbal to non-verbal data and vice-versa

CO. No.	Description
Course Outcomes: C43 –Operation Research (U21ME409)	
C43.1	understand the basic concepts of linear programming problems feasible and infeasible solution.
C43.2	Understand the different method of transport and assignment problems
C43.3	Understand the concept and develop the different models in network analysis
C43.4	Make students understand the concept of replacement models and game theory in real time scenario
C43.5	Prepare the students to understand sequencing models and querying theory for different applications

CO. No.	Description
Course Outcomes: C44 –Java Programing (U21CS402)	
C44.1	Familiarization of OOP concepts and basics of java programming.
C44.2	Enumerate the concept of interfaces and exceptional handling, how to solve real world problems.
C44.3	Build java applications to utilize advanced mechanisms like multi-threading and analyze

CO. No.	Description
	appropriate collections to solve programming problems.
C44.4	Design GUI applications using AWT and JDBC Connectivity.
C44.5	Explore Swing and apply the concept of servlets to solve programming problems.

CO. No.	Description
	Course Outcomes: C45 – Basics of Data Science (U21CD401)
C45.1	Understand the basics concepts of Data Science and categorizing the Data.
C45.2	Understand the datasets and extract the datasets.
C45.3	Understand the fundamentals of Data Mining and various phases of Data Mining.
C45.4	Understand the concepts and procedures of Pre-processing in Data Mining
C45.5	Understand the fundamentals of R-Programming Language.
CO. No.	**Description**
	Course Outcomes: C46 –Advanced Communication Skills lab (U21EN4L1)
C46.1	Develop listening skills and soft skills utterly
C46.2	Build confidence through body language and speaking skills thoroughly
C46.3	Enhance skills of group discussion and interview completely
C46.4	Write resume/CV and cover letter effectively
C46.5	Analysis and comprehend the text inferentially
CO. No.	**Description**
	Course Outcomes: C47 – Java Programing Lab (U21CS4L1)
C47.1	Develop Java applications using the concepts of Inheritance, interfaces, packages, access control specifiers.
C47.2	Implement the concepts of Exception Handling in java Applications.
C47.3	Read and write data using different Java I/O streams.
C47.4	Create graphical user interfaces and Applets by applying the knowledge of Event Handling.
C47.5	Create robust applications using Java standard class libraries and retrieve data from a database with JDBC.
CO. No.	**Description**
	Course Outcomes: C48 – Data Science using R lab(U21CD4L1)
C48.1	Understand the critical R programming language, exposure on solving data science problems.
C48.2	To implement various statistical concepts like linear and logistic regression.
C48.3	To Analyze data and generate reports based on the data, applying various concepts to write programs of R.
C48.4	Program delves into the intricacies of calculations, co-relations and statistical probabilities.
C48.5	It performs classification and clustering using appropriate dataset by understanding the classification and regression models.

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Student will be able to

CO. No.	Description
Course Outcomes:C61 – Business Economics & financial Analysis(U21MB601)	
C61.1	Apply the concepts of business and economics during his professional and personal life.
C61.2	Understand the elasticity of the demand of the product, different types, and measurement of elasticity of demand and factors influencing on elasticity of demand
C61.3	Recognize the production function, features of iso-quants and iso-costs, different types of internal economies and law of returns with appropriate examples
C61.4	Prepare the financial statements of the firm
C61.5	To analyze the financial statements using ratio analysis and cash flow technique

CO. No.	Description
Course Outcomes:C62 –Machine Learning (U21CD601)	
C62.1	Design and implement machine learning solutions imply variant techniques,
C62.2	Calculate Statistical measurements of the given data.
C62.3	Analyze and identify the best algorithm matches for a given dataset.
C62.4	Evaluate and interpret the results of the machine learning algorithms
C62.5	Design and implement various machine learning algorithms in a range of real-world applications

CO. No.	Description
Course Outcomes: C63 – Distributed Database(U21CD602)	
C63.1	Understand theoretical and practical aspects of distributed database systems.
C63.2	Study and identify various issues related to the development of distributed database system
C63.3	Understand the design aspects of object-oriented database system and related development.
C63.4	To understand Web data management, Object Oriented data model
C63.5	To understand the various No SQL database software and Hadoop.

CO. No.	Description
Course Outcomes: C64 –Statistical Simulation and Data Analysis(U21CD605)	
C64.1	Able to know about the regression.
C64.2	Solve numerical issues based on regression with classification
C64.3	Able to do sampling of data.

C64.4	Able to know about Tree based methods
C64.5	Able to know about unsupervised learning

Description

Course Outcomes:C65 – Total Quality Management (U21MB602)

C65.1	Have an overview on quality dimensions and quality system awards and guidelines
C65.2	Have an insight of quality measurement tools.
C65.3	Acquire knowledge on various techniques of total quality management.
C65.4	Understand the six Sigma and problem solving approach.
C65.5	Enhance knowledge on implementation of TQM in service sector,

CO. No.	Description

Course Outcomes:C66 – Distributed Database Lab(U21CD6L1)

C66.1	Understand the installation procedure of Oracle software
C66.2	Understand theoretical and practical aspects of all the basic statements of distributed database systems.
C66.3	Study and identify various programming concepts like trigger, cursor etc and develop software.
C66.4	Understand the design aspects of object-oriented database systems and related development.
C66.5	To understand various NoSQL database software and Hadoop.

CO. No.	Description

Course Outcomes:C67 – Machine Learning Lab(U21CD6L2)

C67.1	The student must be able to design and implement machine learning solutions to classification, regression problems.
C67.2	Understand complexity of Machine Learning algorithms and their limitations.
C67.3	Be capable of confidently applying common Machine Learning algorithms in practice and implementing their own.
C67.4	Be capable of performing experiments in Machine Learning using real-world data.
C67.5	Able to evaluate and interpret the results of the algorithms.

Description

Course Outcomes: C68 –Scripting Language Lab (U21CS6L2)

C68.1	Implement languages like HTML, CSS, XML, JavaScript, PHP, SERVLETS, JSP and protocols in the workings of the web and web applications
C68.2	Design and implement dynamic websites with good aesthetic sense of designing
C68.3	Create web pages using HTML and Cascading Styles sheets
C68.4	Design a web page and identify its elements and attributes.
C68.5	Develop JSP applications implementing Session management and Data base Connectivity

Description

Course Outcomes: C69 –Technical Seminar (U21CD6P1)

C69.1	Implement the habit of referring journals of literature review

C69.2	Understand the gist of research paper
C69.3	Analyze the potential of further scope in development, focusing on areas such as technology and modernization
C69.4	Implement an efficient presentation of work
C69.5	Evaluate the document in standard format

Description

Course Outcomes: C610 –Aptitude & Reasoning (U21MA6L1)	
C68.1	Acquire the grasp of Data analysis and its interpretation through percentages and averages
C68.2	Calculate the problems pertaining to number series and reasoning ability.
C68.3	Analyze the number system pattern and determine profit and losses
C68.4	Evaluate proportions and tackle time framework situations
C68.5	Understand and apply combinatorics, clock-calendar concepts and geometry of plane and solid figures

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Academic Year – 2023-2024   **Semester: VIII**
(OU)
Student will be able to

CO No.	Description
Course Outcomes:C81-Natural Language Processing (PE855CD)	
C81.1	Design an innovative application using NLP components
C81.2	Implement a rule based system to tackle morphology of a language
C81.3	Design a tag set to be used for statistical approaches for different types of NLP applications
C81.4	Compare and contrast the use of different statistical approaches for different types of NLP application
C81.5	Perform various language phonetic analysis.

CO No.	Description
Course Outcomes:C82 –Essential of Road Safety Engineering (PE801Cl)	
C82.1	Understand the fundamentals of Road safety analysis.
C82.2	Analyze Accident data.
C82.3	Understand the concepts of road safety audit

CO No.	Description
C82.4	Applications of road signs and markings
C82.5	To implement the traffic system from a road safety point of view.

CO No.	Description
	Course Outcomes: C83 –Project Work (PW801CD)
C83.1	Demonstrate the ability to synthesize & apply the knowledge and skills acquired in the academic program to real world problems.
C83.2	Evaluate different solutions based on economic & technical feasibility.
C83.3	Effectively plan a project & confidently perform all aspects of project management.
C83.4	Demonstrate effective written & communication skills.