



LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE OUTCOMES

A.Y 2022-23

IV Semester

Name of the Course: Mathematics-III (Probability and statistics)

| Course.No | Outcomes |
|-----------|--|
| C221.1 | Understand the basic concepts of set theory and able to apply basic set operations in problem solving. |
| C221.2 | Understand relation and function and their properties and also able to understand their use in programming applications. |
| C221.3 | Understand Partially ordered set, lattice concept in various application. |
| C221.4 | Understand the concept of graph, Euler graph, Hamiltonian graph and special kind of graph and also able to model real world problems using graph theory. |
| C221.5 | Apply the Laplace Transform, Inverse Laplace Transform and its properties to solve ODE |
| C221.6 | Apply the concept of Fourier Transform and Inverse Fourier transform through properties. |

Name of the Course: English for Technical Communication

| Course.No | Outcomes |
|-----------|---|
| C222.1 | Apply Technical communication skills effectively |
| C222.2 | Adapt different types of official correspondence |
| C222.3 | Construct report writing using various techniques |
| C222.4 | Develop adequate skills of manual writing |
| C222.5 | Interpre the information transfer from verbal to non-verbal data and vice-versa |

Name of the Course: Software Engineering

| Course.No | Outcomes |
|-----------|---|
| C223.1 | Demonstrate software Engineering methods and practices and implement the software process models such as the waterfall and evolutionary models. |
| C223.2 | Identify and translate end-user requirements into system and software. |
| C223.3 | Define the modeling concept and design within the context of software engineering |
| C223.4 | Analyze the Architectural Design of the Software |
| C223.5 | Evaluate the testing, problems and will be able to develop a simple testing report and maintain the quality of the Software |

Name of the Course: Database Management Systems

| Course.No | Outcomes |
|-----------|---|
| C224.1 | Understand the role of Database Management System in an organization and learn the database concept |
| C224.2 | Design databases using data modelling and logical database design techniques |

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| C224.3 | Construct database queries using relational algebra and calculus and SQL |
| C224.4 | Understand the concept of database transaction and related concurrent, recovery facilities |
| C224.5 | Understand the concepts of triggers and stored procedure |

Name of the Course: JAVA Programming

| Course.No | Outcomes |
|------------------|---|
| C225.1 | Understanding of OOP concepts and basics of java programming. |
| C225.2 | Describe the concept of interfaces and abstract classes using extending and implementing keywords. |
| C225.3 | Choose a suitable package to develop the inter process communication using multithreading. |
| C225.4 | Describe the connectivity to database and java programming using JDBC Connectivity. |
| C225.5 | Understand the interaction with the server using servlets |

Name of the Course: Advanced Communication Skills for Professionals

| Course.No | Outcomes |
|------------------|---|
| C226.1 | Improve the students' fluency in English, through a well-developed vocabulary |
| C226.2 | Enable them to listen to English spoken at normal conversational speed by educated English speakers and respond appropriately |
| C226.3 | Can communicate their ideas relevantly and coherently in writing. |
| C226.4 | Analyze different socio-cultural and professional contexts. |

Name of the Course: Database Management Systems Lab

| Course.No | Outcomes |
|------------------|---|
| C227.1 | Design database schema for a given application and apply normalization |
| C227.2 | Gather skills in using SQL commands for data definition and data manipulation. |
| C227.3 | Demonstrate creation and usage of Views and Stored Procedures using SQL. |
| C227.4 | Develop solutions for database applications using procedures, cursors and triggers |
| C227.5 | To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS |

Name of the Course: JAVA Programming Lab

| Course.No | Outcomes |
|------------------|---|
| C228.1 | Develop java application using the concept of Inheritance, Interface, packages, access control specific |
| C228.2 | Implement the concepts of exception handling in java application |
| C228.3 | Read and write data using different I/O streams. |
| C228.4 | Create Graphical user interface and Applet by applying the knowledge of Event Handling. |



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III Year-II Sem- (VI Semester)

Name of the Course: Compiler Design

| Course.No | Outcomes |
|-----------|--|
| C321.1 | Design the compiler given the features of the languages. |
| C321.2 | Implement practical aspect of automata theory. |
| C321.3 | Explain different compiler generation tools. |
| C321.4 | Implement Code optimization and Data flow analysis. |
| C321.5 | Students are able to analyze semantics. |

Name of the Course: Design and Analysis of Algorithms

| Course.No | Outcomes |
|-----------|--|
| C322.1 | Analyze performance of algorithms |
| C322.2 | Apply the appropriate data structure and algorithm design method for a specified application. |
| C322.3 | Understand how the choice of data structures and algorithm design methods impacts the performance of programs. |
| C322.4 | Solve problems using algorithm design methods such as the greedy method, divide and conquer, dynamic programming, backtracking and branch and bound. |
| C322.5 | Understand P and NP classes. |

Name of the Course: Machine Learning

| Course.No | Outcomes |
|-----------|--|
| C323.1 | Understand the concepts of computational intelligence like machine learning |
| C323.2 | Explore the skills to apply machine learning techniques to address the real time problems in different areas |
| C323.3 | Understand the concept of learning and candidate elimination algorithms |
| C323.4 | Explore on tree based decision tree learning |
| C323.5 | Understand the Artificial Neural Networks and its usage in machine learning application. |
| C323.6 | Understand the concepts of Bayesian learning, computational learning and instance-based learning |

Name of the Course: Cryptography and Network Security

| Course.No | Outcomes |
|-----------|---|
| C324.1 | Illustrate the different classical encryption techniques |
| C324.2 | Use mathematical concepts for different cryptographic algorithms. |
| C324.3 | Demonstrate cryptographic algorithms for encryption/key exchange. |
| C324.4 | Identify security issues in network, transport and application layers and outline appropriate security protocols. |
| C324.5 | Generate and distribute a PGP key pair and use the PGP package to send an encrypted e-mail message. |

Name of the Course: Software Testing

| Course.No | Outcomes |
|-----------|--|
| C325.1 | Understand and learn the concept of testing, levels of testing with generalized pseudo code |
| C325.2 | Learn Various testing techniques and methodology of black box testing and white box testing |
| C325.3 | Obtain the knowledge of Integration and System testing with Complexities |
| C325.4 | Understand the use of Object Oriented testing, automated tool for testing and Millennium testing methods |
| C325.5 | Evaluate an application using Functional Testing |
| C325.6 | Analyze the testing techniques for test driven development |

Name of the Course: SSIS

| Course.No | Outcomes |
|-----------|--|
| C326.1 | Handle technical communication effectively |
| C326.2 | Use different types of professional correspondence |
| C326.3 | Use various techniques of report writing |
| C326.4 | Acquire adequate skills of manual writing |
| C326.5 | Enhance their skills of information transfer and presentations |

Name of the Course: Machine Learning Lab

| Course.No | Outcomes |
|-----------|---|
| C327.1 | Understand complexity of Machine Learning algorithms and their limitations. |
| C327.2 | Understand modern notions in data analysis-oriented computing. |
| C327.3 | Be capable of confidently applying common Machine Learning algorithms in practice and implementing their own. |
| C327.4 | Be capable of performing experiments in Machine Learning using real-world data. |
| C327.5 | <i>Design</i> and <i>apply</i> various reinforcement algorithms to solve real time complex problems |

Name of the Course: DAA Lab

| Course.No | Outcomes |
|-----------|---|
| C328.1 | Implement programs to solve problems using algorithm design techniques |
| C328.2 | Create programs to solve parameter-based analysis of the searching & sorting and tree |

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| | based Algorithms. |
| C328.3 | Create programs to solve problems using divide and conquer strategy. |
| C328.4 | Implement programs to solve problems using greedy and dynamic programming techniques. |
| C328.5 | Design programs to solve problems using backtracking strategy. |

Name of the Course: Mini Project

| Course.No | Outcomes |
|------------------|--|
| C329.1 | Identify and define problems in the area of Computer science |
| C329.2 | Explain and illustrate their practical skills needed to understand and modify problems related to programming and designing. |
| C329.3 | Apply current technologies and develop applications for the problems. |
| C329.4 | Practice as teams on multidisciplinary projects with effective writing and communication skills. |
| C329.5 | Apply the engineering and management principles to achieve the goal of the project |

Name of the Course: Summer Internship

| Course.No | Outcomes |
|------------------|--|
| C3210.1 | Construct the company profile by compiling the brief history, management structure, products / services offered, key achievements and market performance for his / her organization of internship. |
| C3210.2 | Determine the challenges and future potential for his / her internship organization in particular and the sector in general. |
| C3210.3 | Test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period. |
| C3210.4 | Analyze the functioning of internship organization and recommend changes for improvement in processes |



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Year IV Yr – II Semester (VIII Semester) A.Y- 22-23

Name of the Course: Mobile Computing

| Course.No | Outcomes |
|------------------|---|
| C421.01 | Describe the steps in Security Systems development life cycle (SecSDLC). |
| C421.02 | Identify security needs using risk management and choose the appropriate risk control strategy based on business needs. |
| C421.03 | Use the basic knowledge of security frameworks in preparing security blue print for the organization. |
| C421.04 | Usage of reactive solutions, network perimeter solution tools such as firewalls, host solutions such as antivirus software and Intrusion Detection techniques and knowledge of ethical hacking tools. |
| C421.05 | Use ethical hacking tools to study attack patterns and cryptography and secure communication protocols. |
| C421.06 | Understand the technical and non-technical aspects of security project implementation and accreditation. |

Name of the Course: Road Safety Engineering

| Course.No | Outcomes |
|------------------|---|
| C422.01 | Understand the Data Science Applications and Basics of 'R' Programming with Linear equations, Eigen Values Vectors |
| C422.02 | Learn Various Statistical concepts like linear and logistic regression, time series analysis and also learn the various 'R' libraries |
| C422.03 | Able to install 'R' software for data analysis and analyze the models for classification |
| C422.04 | Understand Decision tree, association rule and text mining using 'R' objects |
| C422.05 | Evaluate the relational databases MySQL, data reading, NoSQL, and MongoDB |
| C422.06 | Analyze and implementation of 'R' basic programs |

Name of the Course: Project Stage - II

| Course.No | Outcomes |
|------------------|--|
| C423.01 | Acquire practical knowledge in spite of theoretical concepts he/she acquired. |
| C423.02 | Analyze uncertainty of open ended investigations like technical problems and difficulties in collecting the required data. |
| C423.03 | Asses different tools /soft ware's and protocols which he used in the project. |
| C423.04 | Simulate their Software results and dump into hardware for testing. |

