

LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING AY:20-21 COURSE OUTCOMES

Semester: III Semester

Name of the Course: Environmental Science

Course.No	Outcomes
C211.01	Adopt environmental ethics to attain sustainable development.
C211.02	Develop an attitude of concern for the environment.
C211.03	Conservation of natural resources and biological diversity.
C211.04	Creating awareness of Green technologies for nation's security.
C211.05	Imparts awareness for environmental laws and regulations.

Name of the Course: Essance of Indian Traditional Knowledge

Course.No	Outcomes
C212.01	Gain knowledge of Indian Philosophical Foundation.
C212.02	Understand all religions and their philosophy.
C212.03	Comprehend Indian Languages, Culture and Literature.
C212.04	Appreciate Indian Fine Artistic skills.
C212.05	Familiarize with Indian Education System, Ethics, and Moral Values
C212.06	Explore the Science and Scientists of Medieval and Modern India.

Name of the Course: Operations Research

Course.No	Outcomes
C213.01	Annotating the concepts, scope, need and phases of operations research. Preparing the L.P.P
	and derive optimal solutions to linear programming problems by graphical method, simplex
	method, Big-M method and two phase
	method.
C213.02	Preparing the Transportation and Assignment problems and determining
	optimum solutions for transportation, Assignment and travelling salesmanproblems.
C213.03	Calculating minimum processing times for sequencing of n-jobs-2/3/m & 2- jobs-n machines and best replacement time for deteriorate items when value of money is counted & not counted.
C213.04	Illustrating a game theory for pure and mixed strategy under competitive
	environment and preparing an inventory model for EOQ considering single &multiple price
	breaks.
C213.05	Illustrating the waiting line problems for M/M/1 and M/M/K queuing modelsand Dynamic Programming problems for shortest path & L.P.P model and
C213.06	Assessing the applications of simulation process for queuing & inventoryproblems.

Name of the Course: BIOLOGY FOR ENGINEERS

Course.No	Outcomes
C214.01	Apply biological engineering principles, procedures needed tosolve real world problems
C214.02	Understand the fundamentals of living things, their classification, cell structure & biochemical constituents.
C214.03	Apply the concept of plant, animal and microbial systems and growth in real life.
C214.04	Comprehend the genetics and the immune system.
C214.05	Know the cause, symptoms, diagnosis and treatment of commondiseases.
C214.06	Apply the basic knowledge of the application of biological systems in relevant industries.

Name of the Course: Basic Electronics

Course.No	Outcomes
C215.01	Obtain the the V - I characteristics of diode and analyze various diode applications like rectifiers
	and regulators.
C215.02	Analyse the construction & working of active devices like BJT & FET in various modes.
C215.03	Recognize the type of feedback and analyze its effect on amplifier characteristics and calculate the
	frequency of oscillation for different types of oscillator circuits.
C215.04	Analyze and design different circuits using Ideal Op Amps; Design simple digital circuits using
	logic gates.
C215.05	Understand the principle of operation & applications of electronic devices, transducers.
C215.06	Analyse different data acquisition systems and data converters.

Name of the Course: Digital Electronics

Course.No	Outcomes
C216.01	Understand the Basics of Digital Electronics and concepts related to Digital Circuits design.
C216.02	Design various logic gates and simplify Boolean Expressions.
C216.03	Realize and analyse the operation of MUX, decoders, adder, subtractor, BCD adder, magnitude comparator circuit.
C216.04	Study and construction of Sequential logic Circuits.
C216.05	Understand various design of flip flops and to identify and realize circuits using flip-flop.
C216.06	Understand the concepts of programmable logic devices, shift registers, counters, FSM and
	various memory devices.

Name of the Course: Data Structures and Algorithms

Course.No	Outcomes
C217.01	Understand the importance of abstract data type and implementing the concepts of data structure
	using abstract data type.
C217.02	Evaluate an algorithm by using algorithmic performance and measures
C217.03	Apply Linear data structures such as stacks, queues, linked lists and develop applications using
	them.
C217.04	Apply Non-Linear data structures such as trees and develop applications using them.
C217.05	Determine the suitability of the standard algorithms: Searching, Sorting and Traversals.
C217.06	Model real world problems using graphs.

Name of the Course: Discrete Mathematics

Course.No	Outcomes
C218.01	Illustrate by examples the basic terminology of functions, relations, and sets and demonstrate
	knowledge of their associated operations.
C218.02	Understand basics of counting, apply permutations and combinations to handledifferent types of
	objects.
C218.03	Describe and use recursively-defined relationships to solve problems using generating functions.
C218.04	Analyse semi group, monoid group and abelian group with suitable examples and appreciate group
	theory applications in computer arithmetic.
C218.05	Demonstrate in practical applications the use of basic counting principles of permutations,
	combinations, inclusion/exclusion principle and the pigeon holemethodology.
C218.06	Illustrate by examples the basic terminology of functions, relations, and sets and demonstrate
	knowledge of their associated operations.

Name of the Course: Programming Languages

Course.No	Outcomes
C219.01	Ability to express syntax and semantics in formal notation.
C219.02	Ability to apply suitable programming paradigm for theapplication.
C219.03	Gain Knowledge and comparison of the features programming languages
C219.04	Program in different language paradigms and evaluate their relative benefits.
C219.05	Identify and describe semantic issues associated with variablebinding, scoping rules,
	parameter passing, and exception handling.
C219.06	Understand the design issues of object-oriented and functional languages.

Name of the Course: Basic Electronics Lab

Course.No	Outcomes
C2110.01	Study and understand about CRO and Resistors, diodes, transistor components and their
	Applications.
C2110.02	Analyze the Characteristics of Bipolar Junction Transistor and Field Effect Transistor.
C2110.03	Analyze the RC phase shift oscillator and Hartley and Colpitts Oscillators and its applications.
C2110.04	Design and analyze the BJT CE Amplifier and Operational Amplifier and its applications.
C2110.05	Construct and analyze the Full wave rectifier with and without filter.
C2110.06	Study and measurement of Strain gauge.

Name of the Course: Data Structures and Algorithms Lab

Course.No	Outcomes
C2111.01	Understand and Implement the abstract data type and reusability of a particular data structure.
C2111.02	Implement linear data structures such as stacks, queues using array and linked list.
C2111.03	Understand and implements non-linear data structures such as trees, graphs
C2111.04	Implement various kinds of searching, sorting and traversal techniques and know when to choose
	which technique.
C2111.05	Understanding and implementing hashing techniques
C2111.06	Decide a suitable data structure and algorithm to solve a real world problem.

Name of the Course: Advanced Computer Skills Lab

Course.No	Outcomes
C2112.01	Implement basic syntax in python.
C2112.02	Analyse and implement different kinds of OOP concept in real world problems.
C2112.03	Implement MATLAB operations and graphic functions.
C2112.04	Implement object oriented concepts,
C2112.05	Implement database and GUI applications
C2112.06	Implement basic syntax in python.

^{*}List Courses as per the order in university syllabus copies



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING AY:20-21 COURSE OUTCOMES

Year: III Year Semester: I Semester

Name of the Course: Formal Languages and Automata Theory

Course.No	Outcomes
C311.01	Able to understand the concept of abstract machines and their power to recognize the languages.
C311.02	Apply finite state machines for modeling and solving computing problems.
C311.03	Able to design context free grammars for formal languages.
C311.04	Distinguish between decidability and undecidability.
C311.05	Able to gain proficiency with mathematical tools and formalmethods.

Name of the Course: Software Engineering

Course.No	Outcomes
C312.01	Decompose the given projectin various phases of a lifecycle.
C312.02	Choose appropriate processmodel depending on the user requirements.
C312.03	Perform various life cycle activities like Analysis, Design, Implementation, Testing and
	Maintenance.
C312.04	Know various processes used in all the phases of the product.
C312.05	Apply the knowledge, techniques, and skills in the development of a software product.

Name of the Course: Computer Networks

Course.No	Outcomes
C313.01	Explain & Design the various reference models and networks.
C313.02	Identify the different types of network devices and Multiple AccessProtocols.
C313.03	Use IP addressing Scheme and to interconnect various networks and Routing mechanism
C313.04	Explain transport layer protocols: TCP, UDP.
C313.05	Explain and use various application layer protocols: HTTP, DNS, andSMTP, FTP etc.
C313.06	Understand the World Wide Web concepts.

Name of the Course: Web Technologies

Course.No	Outcomes
C314.01	Explain internet related technologies. Systematic way ofdeveloping a website.
C314.02	Design dynamic and interactive web pages by embedding Java Script code in HTML. Use Java Script to validate userinput.
C314.03	Use of different types of CSS to design web pages.
C314.04	Use CGI and Perl. VB Script and Efficiently write Javaapplets.

C314.05	Explain the fundamentals of. ASP, AJAX, Web Hosting.

Name of the Course: Data Analytics

Course.No	Outcomes
C315.01	Understand the impact of data analytics for business decisions and strategy
C315.02	Carry out data analysis/statistical analysis
C315.03	To carry out standard data visualization and formal inference procedures
C315.04	Design Data Architecture
C315.05	Understand various Data Sources

Name of the Course: Advanced Operating Systems

Course.No	Outcomes
C316.01	Understand the concept of Distributed Systems and can be able to Analyze the design issues of
	distributed operating systems.
C316.02	Demonstrate the different architectures used in Distributed OS and analyze their design issues.
C316.03	Differentiate the mutual exclusion algorithms
C316.04	Distinguish the design issues of multi-processor operating systems.
C316.05	Identify the requirements Distributed File System and Distributed Shared Memory.
C316.06	Implement the load balancing algorithms.

Name of the Course: Computer Networks & Web Technology Lab

	1 Ov
Course.No	Outcomes
C317.01	Implement data link layer framing methods
C317.02	Analyse error detection and error correction codes
C317.03	Implement and analyse routing and congestion issues in networkdesign
C317.04	Implement Encoding and Decoding Techniques used in presentationlayer
C317.05	Familiar with various network tools

Name of the Course: Software Engineering Lab

Course.No	Outcomes
C318.01	Able to Plan a software engineering process lifecycle.
C318.02	Able to elicit, analyze and specify software requirements.
C318.03	Able to Analyze and translate a specification into adesign.
C318.04	Able to Built an SRS documents :Realize designpractically, using an appropriate software engineering
C318.05	Develop prototype model for a given case studyusing modern engineering tools.

Name of the Course: Advanced Communications Skills Lab

Course.No	Outcomes
C319.01	Improve the students' fluency in English, through a well-developed vocabulary
C319.02	Enable them to listen to English spoken at normal conversational speed by educated English
	speakers and respond appropriately
C319.03	Can communicate their ideas relevantly and coherently in writing.
C319.04	Analyze different socio-cultural and professional contexts.

Name of the Course: Intellectual Property Rights

Course.No	Outcomes
C3110.01	knowledge about four types of intellectual property right and different international
	organizations.
C3110.02	knowledge on trademarks and can apply in trademark registration.
C3110.03	knowledge on copyrights and can apply ownership rights.
C3110.04	Evaluate different types of patents and can apply in ownership rights and transfer
C3110.05	Examine false advertising in the market and trade secret protection.
C3110.06	Evaluate critical analysis arguments relating to the new development in intellectual property
	rights.

^{*}List Courses as per the order in university syllabus copies



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING AY:20-21 COURSE OUTCOMES

Year: IV Year

Semester: I Semester Name of the Course: Data Mining

Course.No	Outcomes
C411.01	Interpret the concepts of Object-Oriented Programming used in Python.
C411.02	Demonstrate proficiency in handling File Systems and Exceptions.
C411.03	Understand how to use Regular Expressions and Multithreadedprogramming
C411.04	Implement exemplary applications related to GUI and WebServices
C411.05	Create Databases in Python.

Name of the Course: Principle of Programming Language

Course.No	Outcomes
C412.01	Express syntax and semantics in formal notation
C412.02	Understanding the programming paradigms of modern programming languages
C412.03	Understand the concepts of ADT and OOP.
C412.04	Understand the program in different language paradigms and evaluate their relative benefits.
C412.05	Understand the concepts of concurrency control and exception handling

Name of the Course: Python Programming

Course.No	Outcomes
C413.01	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control
	flow statements.
C413.02	Express proficiency in the handling of strings and functions.
C413.03	Determine the methods to create and manipulate Python programs by utilizing the data structures
	like lists, dictionaries, tuples and sets.
C413.04	Identify the commonly used operations involving file systems and regular expressions.
C413.05	Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and
	polymorphism as used in Python.

Name of the Course: Distributed Systems

Course.No	Outcomes
C414.01	Ability to comprehend and design a new distributed system with the desired features
C414.02	Understanding theoretical concepts, namely, virtual time, agreement and consensus protocols.
C414.03	Analyze IPC, Group Communication & RPC Concepts.
C414.04	Identify problems using the DFS and DSM Concepts.
C414.05	Understanding the concepts of transaction in distributed environment and associated concepts,
	namely, concurrency control, deadlocks and error recovery.

Name of the Course: Cloud Computing

Course.No	Outcomes
C415.01	Understand various service delivery models of a cloud computing architecture.
C415.02	Evaluate the ways in which the cloud can be programmed and deployed combinations.
C415.03	Understanding cloud service providers.
C415.04	Analyzing the Infrastructure as a Service in Cloud computing
C415.05	Apply cloud programming and software environments in different systems

Name of the Course: Data Mining Lab

Course.No	Outcomes
C416.01	Ability to understand various kinds of Tools
C416.02	Demonstrate Association, Classification Techniques
C416.03	Demonstrate Clustering and Outlier Analysis
C416.04	Ability to add mining algorithm as component to the exsting Tools
C416.05	Ability toapply Mining Techniques for realistic data
C416.06	Knowledge about Real time Datamining Application

Name of the Course: Python Programming Lab

Course.No	Outcomes
C417.01	Write, Test and Debug Python Programs
C417.02	Implement Conditionals and Loops for Python Programs
C417.03	Use functions and represent Compound data using Lists, Tuples and Dictionaries
C417.04	Read and write data from & to files in Python and develop Application using Pygame

Name of the Course: Industry Oriented Mini Project

Course.No	Outcomes
C418.01	Acquire practical knowledge in spite of theoretical concepts he/she acquired (Application).
C418.02	Recognise uncertainty of open ended investigations like technical problems and difficulties in
	collecting the required data (knowledge).
C418.03	Differentiate open ended projects and set of practicals(Comparasion).
C418.04	Develop their communication and team work skills (synthesys).
C418.05	Asses different tools /soft ware's and protocols which he used in the project(Evaluation).
C418.06	Simulate their Software results and dump into hardware for testing (Analysis)

Name of the Course: Seminar

Course.No	Outcomes
C419.01	Improve oral and written communication skills.
C419.02	Explore an appreciation of the self in relation to its larger diverse social and academic contexts.
C419.03	Identify, understand and discuss current, real-world issues
C419.04	Distinguish and integrate differing forms of knowledge and academic disciplinary approaches
C419.05	Apply principles of ethics and respect in interaction with others.