Course Outcomes

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

Student will be able to

CO. No.	Description
	Course Outcomes:C31—Mathematics-III(Probability & Statistics)(U21MA301)
C31.1	Determine Probability, Random variables, distributions and its application
C31.2	Apply the knowledge of some standard discrete probability distributions and moments
C31.3	Calculate parameters of standard continuous probability distributions
C31.4	Find the parameters and concepts of correlation, regression and obtain the knowledge of sampling Theory with context totest 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–Digital Electronics & Computer Organization (U21EC304)
C32.1	Understand the basic concepts of digital electronics
C32.2	Realization of Boolean functions using different methods
C32.3	Design and analyze various combinational circuit
C32.4	Analyze various types of flip flops with their excitation tables and their conversion
C32.5	To illustrate the operation of digital computer and to understand its organization.
C32.6	Understand the Different memory types.
CO. No.	**Description**
	Course Outcomes: C33-- English For Technical Communication(U21EN301)
C33.1	Apply technical communication skills effectively
C33.2	Adapt different types of official correspondence
C33.3	Construct report writing using various techniques
C33.4	Develop adequate skills of manual writing
C33.5	Interpret the information transfer from verbal to non-verbal data and vice-Versa

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 programming
C35.5	Write basic programs related to basic library modules.

Course Outcomes

Academic Year – 2023-2024 **Semester: V (Autonomous)**

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 demands.
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:C52-- Automata Theory, Language and 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 undesirability
CO. No.	**Description**
	Course Outcomes:C53- Design and Analysis of Algorithms (U21CM502)
C53.1	Understand basic efficiency classes and asymptotic notations.
C53.2	Apply different problem-solving strategies, such as divide-and-conquer and transfer-and-conquer.
C53.3	Analyze various algorithms, such as Floyd's, TSP, etc., to address problems in the actual world.

C53.4	Determine the classes P and NP.
C53.5	Create solutions for n-Queens, Subset-Sum, Assignment, Knapsack, and other problems.

CO. No.	**Description**
	Course Outcomes:C54-Machine Learning (U21CM503)
C54.1	Understand the basic concepts of Data Science and techniques of Machine Learning
C54.2	Apply exploratory data analysis and Data preparation and preprocessing on different datasets and Evaluate Statistical measurements of the given data..
C54.3	Evaluate the performance of regression problems
C54.4	Evaluate the results of the classification algorithms..
C54.5	Design and implement machine learning solutions SVM, ensemble method and Instance based learning.

CO. No.	**Description**
	Course Outcomes:C55-- Foundation of Data Science (U21CM506)
C55.1	Understand different types of data and how the evolution of technology and introduction of I.O.T devices and social media have led to the need of data science
C55.2	Understand and extract knowledge using data preprocessing concepts and data mining principles
C55.3	Understand and execute different statistical analysis of given dataset
C55.4	Implement different ETL operations on given data set
C55.5	Understand the basics of R Programming environment: R language studio and R packages

Course Outcomes

Academic Year – 2023-2024 **Semester: VII (Autonomous)**

Student will be able to

CO. No.	Description
	Course Outcomes: C51-- Advanced Operating Systems (PE731CSM)
C71.1	Understand the design approaches of advanced operating systems
C71.2	Analyze the design issues of distributed operating systems.
C71.3	Evaluate design issues of multi-processor operating systems.
C71.4	Identify the requirements Distributed Shared Memory.
C71.5	Formulate the solutions to schedule the real time applications.
CO. No.	**Description**
	Course Outcomes:C52 Information Security (PC701CSM)
C72.1	Describe the steps in Security Systems development life cycle (SecSDLC)
C72.2	Understand the legal and ethical issues, common threats and attack to information systems
C72.3	Identify security needs using risk management and choose the appropriate risk control strategy based on business needs
C72.4	Use the basic knowledge of security frameworks in preparing security blue print for the organization
C72.5	Use ethical hacking tools to study attack patterns and cryptography and secure communication protocols
CO. No.	**Description**
	Course Outcomes:C53- Cloud computing (PE744CSM)
C73.1	To Understand the concept of cloud computing
C73.2	To Understand the various issues in cloud computing
C73.3	To Familiarize themselves with the lead players in cloud.
C73.4	To appreciate the emergence of the cloud as the next generation computing paradigm
C73.5	After completion of the course, the students will be able to develop basic

	understanding of cloud computing, its services (through tools) and deployments models.
CO. No.	**Description**
	Course Outcomes:C54- Big Data Analytics (PC702CSM)
C74.1	Understand Big Data and its analytics in the real world
C74.2	Analyze the Big Data framework like Hadoop and NOSQL to efficiently store and process Big Data to generate analytics
C74.3	Design of Algorithms to solve Data Intensive Problems using Map Reduce Paradigm
C74.4	Design and Implementation of Big Data Analytics using pig and spark to solve data intensive problems and to generate analytics
C74.5	Implement Big Data Activities using Hive