



Course Outcomes of R20 Regulations

I – SEM

20DMB01 -ACCOUNTING AND FINANCIAL MANAGEMENT

- CO 1. Apply the concepts and principles of accounting in preparation of the financial statements
- CO 2. Evaluate the financial performance of the organization
- CO 3. Assess the financial position of the company by employing the tools and techniques of financial analysis.
- CO 4. Use Break Even analysis techniques for financial decision-making.
- CO 5. Evaluate effectiveness of financial investment decisions

20DHS01- ENGLISH LANGUAGE COMMUNICATION SKILLS

- CO 1. Build effective technical communications.
- CO 2. Face interviews confidently and ready for Job.
- CO 3. Apply key words, phrases and sentence structures making a mark in interviews and presentation skills.
- CO 4. Build Effective writing skills with the ability to use different styles for different situations.

20DMC03-PYTHON PROGRAMMING

- CO 1. Interpret the fundamental Python syntax and semantics and be fluent in the use of Python Data types and control flow statements in python programming
- CO 2. Define and demonstrate the use of built-in data structures lists, tuples , sets & dictionary.
- CO 3. Express proficiency in the handling of strings, functions and apply the concept of functions and exception handling.
- CO 4. Articulate the Object-Oriented Programming concepts such as Classes, inheritance and polymorphism as used in Python. Also understand the fundamentals of the Pandas library in Python and how it is used to handle data
- CO 5. Create Packages & Modules and Design user interface using Tkinter and turtle graphics for application development.

20DMC04 - COMPUTER ORGANIZATION

- CO 1. Recall and summarize the basic concept of computer fundamentals, Number system, Boolean algebra, Karnaugh map and solve problems on number system.
- CO 2. Distinguish between hardwired and micro programmed control units
- CO 3. Understand the architecture and functionality of central processing unit
- CO 4. Analyze Data transfer techniques and process control instructions
- CO 5. Compare various types of IO mapping techniques.

20DMC05 - OPERATING SYSTEMS

- CO 1. Understand process management concepts including scheduling, synchronization and deadlocks.
- CO 2. Understand different memory management techniques to utilize memory effectively.
- CO 3. Understand the various resource allocation methods in disk scheduling and distributed file systems.
- CO 4: Understand various File System format used by Operating systems.
- CO 5: Understand different types of Operating Systems and its architecture.

20DMC06 - DATABASE MANAGEMENT SYSTEMS

- CO 1. Design a schema using ER diagrams and map ER into Relations and normalize the relations.
- CO 2. Design entity relationship and convert entity relationship diagrams and formulate SQL queries
- CO 3. Write SQL queries for a given context in relational database
- CO 4. Implement normalization algorithms using database design theory for different applications
- CO 5. Impart knowledge in transaction processing, concurrency control techniques and recovery procedures.

II - SEM

20DMC11 - DISCOVERING STATISTICS USING R

- CO 1 . Write basic scripts in R programming in terms of constructs, control statements, string functions
- CO 2. Implement Statistical Data Analytics using R programming.
- CO 3. Implement Statistical Data Analytics using R programming.
- CO 4. Apply R programming for Text processing
- CO 5. Appreciate and apply the R programming from a statistical perspective and Queuing Theory

20DMC12 - DATA STRUCTURES THROUGH JAVA

- CO 1. Understand programming elements in Java and apply oops concepts to develop application using entities.
- CO 2. Compare and apply various sorting and searching techniques
- CO 3. Develop and solve real-time problems using Stacks & Queues
- CO 4. Develop and solve real-time problems using linked lists
- CO 5. Understand non-linear Data structures to solve hierarchical and real-time problems.

20DMC13 - DATA WAREHOUSING AND MINING

- CO 1. Store voluminous data for online processing
- CO 2. Preprocess the data for mining applications
- CO 3. Apply the association rules for mining the data
- CO 4. Deploy appropriate techniques for classification
- CO 5. Cluster the high dimensional data for better organization of the data.

20DMC14 – OPERATIONS RESEARCH

- CO 1. Analyze a variety of industrial scenarios, choose appropriate model to solve the problems.
- CO 2. Apply alternate solutions to help the management to make effective decisions.
- CO 3. Apply the sequence in which a job is to be carried out on 'n' machines.
- CO 4. Implement project management by PERT and CPM.
- CO 5. Implement the dynamic programming and make effective decisions in game theory.

20DMC15 – DESIGN AND ANALYSIS OF ALGORITHMS

- CO 1. Determine the time complexity of an algorithm by solving the corresponding recurrence equation, apply the Divide and Conquer strategy to solve searching, sorting and matrix multiplication problems.
- CO 2. Analyze the efficiency of Greedy and Dynamic Programming design techniques to solve the optimization problems.
- CO 3. Apply Backtracking technique for solving constraint satisfaction problems.
- CO 4. Analyze the LC and FIFO branch and bound solutions for optimization problems, and compare the time complexities with Dynamic Programming techniques.
- CO 5. Define and Classify deterministic and Non deterministic algorithms; P, NP, NP –hard and NP complete classes of problems.

20DMC16 -SOFTWARE ENGINEERING

- CO 1. Know the models involve in Software Engineering.
- CO 2. Use system models in designing a software.
- CO 3. Identify the minimum requirements for the design, development of application.
- CO 4. Work with various techniques, metrics and strategies for Testing software projects.
- CO 5. Illustrate project planning, cost estimation, quality management techniques.

20DMC17 - SOFTWARE PROJECT MANAGEMENT

- CO 1. Describe and determine the purpose and importance of project management from the perspectives of planning, tracking and completion of project
- CO 2. Implement Transition phases at each stage of the project
- CO 3. Analyze the Programmatic Artifacts.
- CO 4. Compare and differentiate organization structures and project structures.
- CO 5. Implement a project to manage project schedule, expenses and resource with the application of suitable project management tools

20DMC20 - Computer Graphics

- CO 1. Gain proficiency in 2D computer graphics API
- CO 2. Gain proficiency in 3D computer graphics API
- CO 3. Design an interactive computer graphics architecture
- CO 4. Apply 3D Geometric transformations and Viewing
- CO 5. Develop a computer graphics animation

III SEM

20DMC29 – LINUX PROGRAMMING

- CO 1. Compare Linux os with Unix & windows & identify the common things , describe the fundamentals of Linux os.
- CO 2. Apply and identify the general Linux utilities, file handling utilities & provide security by file permissions to conduct experiments.
- CO 3. Write Regular expressions for pattern matching and apply them to various filters for a specific task.
- CO 4. Implement interactive bash shell programming & identify the importance of input & output redirection & to running a shell script.
- CO 5. Make use of advanced control elements in bash shell script.

20DMC30 – WEB TECHNOLOGIES

- CO 1. Describe basics of html list, tables and apply various css properties and develop the webpage using forms and frames.
- CO 2. Identifying the features of php and understanding the basics of string and oop concepts and apply conditional statements and looping methods and develop the php program using inheritance concepts.
- CO 3. Listening the basics of sql queries and apply the dml commands and write the application using sql queries and filter entries.

20DMC31 – ANDROID APPLICATION DEVELOPMENT

- CO 1. Describe the history of mobile software and understand the manifest file and to change the android permissions and resources.
- CO 2. Develop the android application using various ui elements and also apply the styles and themes.
- CO 3. Learn the basics of multimedia and still images and understand the concepts of notification and write the program using SQLite databases and design an android application using content providers, video and audio.

20DMC32 – ARTIFICIAL INTELLIGENCE

- CO 1. Identify the problems interpret the solution by applying AI methods, and with ai methods may be suited to solving a given problem
- CO 2. Interpret the basic of local search algorithms, optimization techniques and apply the given algorithm in different AI methods.
- CO 3. Develop the first order logic and knowledge engineering in forward and backward Chaining.
- CO 4. Apply and list the key aspects of planning and learning in artificial intelligence
- CO 5. Interpret the procedural and non procedural paradigms of expert system.

20DMC33 – MACHINE LEARNING

- CO 1. Identify to basic skill in machine learning such as regression, clustering and classification set required in this fast expanding field of machine learning. Interpret the learning algorithms.
- CO 2. Describe the Python programming as a standard and common language for machine learning. And Understand how to evaluate models generated from data.
- CO 3. Illustrate individuals skilled in artificial intelligence, data analytics, statistical programming and other software skills. And Apply the algorithms to a real world problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.

20DMC34 – SOFTWARE TESTING METHODOLOGIES

- CO 1. Apply software testing knowledge and engineering methodologies
- CO 2. Comprehend and apply knowledge in transaction flow and data flow techniques.
- CO 3. Compare Domain Testing and contemporary issues in software testing
- CO 4. Apply logic-based testing and state graph testing in software methodologies
- CO 5. Have an ability to use software testing methods and modern software testing tools for their testing projects

20DMC35 – OOAD using UML

- CO 1. Analyze the requirements and generate use cases of Design modeling.
- CO 2. Remember and Able to Perform Object oriented analysis and structure of Programming.
- CO 3. Perform overall design using various UML diagrams and Implementations

20DMC36 – CLOUD COMPUTING

- CO 1. Understand the services and its applications of cloud data and Apply suitable abstraction and virtualization technique in cloud environment.
- CO 2. Identifying different services provider Apply the cloud services and data. Develop applications for Business and Consumers Services.
- CO 3. Remembering resource provision and the mapping can be done efficiently then Evaluates the Qos based on resources to the end user.

20DMC43 – ORGANIZATIONAL STRUCTURE AND PERSONNEL MANAGEMENT

- CO 1. Interpret various forms of organizational structure and the concept of Staffing function
- CO 2. Demonstrate how to make better decisions both individually and in a group.
- CO 3. Integrated perspective on role of HRM in modern business
- CO 4. Ability to plan human resources and implement techniques of job design . Competency to recruit, train, and appraise the performance of employees
- CO 5. Classify how individual differences—such as personalities, perceptions, attitudes, and ethics—affect employee performance