Don Bosco College(Co-Ed)
Yelagiri Hills
PG Department of Computer Science
Course Outcomes for 2023 Curriculum

SEM I	ANALYSIS AND DESIGN OF ALGORITHMS

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Get knowledge about algorithms and determine their time complexity. Demonstrate specific search and sort algorithms using divide and conquer technique.

2. Gain good understanding of Greedy method and its algorithm.

3. Able to describe about graphs using dynamic programming technique.

4. Demonstrate the concept of backtracking & branch and bound technique.

5. Explore the traversal and searching technique and apply it for trees and graphs.

SEM I	OBJECT ORIENTED ANALYSIS AND DESIGN & C++

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Understand the concept of Object-Oriented development and modelling techniques.

2. Gain knowledge about the various steps performed during object design.

3. Abstract object-based views for generics of Software systems.

4. Link OOAD with C++ language.

5. Apply the basic concept of OOPs and familiarize to write C++ program.

SEM I	PYTHON PROGRAMMING

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Understand the basic concepts of Python Programming.

2. Understand File operations, Classes, and Objects.

3. Acquire Object Oriented Skills in Python.

4. Develop web applications using Python.

5. Develop Client Server Networking applications.

SEM I	PYTHON PROGRAMMING

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Understand about Software Engineering process

2. Understand about Software project management skills, design and quality management.

3. Analyse on Software Requirements and Specification

4. Analyse on Software Testing, Maintenance and Software, Re-Engineering.

5. Design and conduct various types and levels of software quality for a

software project.

SEM I	PRINCIPLES OF COMPILER DESIGN

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Understand the phases and tools available in Compiler

2. Design and implement a Lexical Analyzer

3. Compare and analyse different types of Compilers

4. Specify appropriate translations to generate Intermediate Code

5. Identify sources for Code Optimization.

SEM I	PRACTICAL: ALGORITHM AND OOPS LAB

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

   1. Understand the concepts of object oriented with respect to C++

   2. Able to understand and implement OOPS concepts

   3. Implementation of data structures like Stack, Queue, Tree, List using C++

   4. Application of the data structures for Sorting, Searching using different techniques.

SEM I	PYTHON PROGRAMMING LAB

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

   1. Able to write programs in Python using OOPS concepts.

   2. To understand the concepts of File operations and Modules in Python.

   3. Implementation of lists, dictionaries, sets and tuples as programs.

   4. To develop web applications using Python.

SEM II	DATA MINING AND WAREHOUSING

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

   1. Understand the basic data mining techniques and algorithms

   2. Understand the Association rules, Clustering techniques and Data warehousing contents

   3. Compare and evaluate different data mining techniques like classification,

   prediction, Clustering, and association rule mining

   4. Design data warehouse with dimensional modelling and apply OLAP operations

   5. Identify appropriate data mining algorithms to solve real world problems

SEM II	ADVANCED OPERATING SYSTEMS

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Understand the design issues associated with operating systems.

2. Master various process management concepts including scheduling, deadlocks, and distributed file systems

3. Prepare Real Time Task Scheduling

4. Analyze Operating Systems for Handheld Systems

5. Analyze Operating Systems like LINUX and Ios.

SEM II	ADVANCED JAVA PROGRAMMING

Expected Course Outcomes:

1. Understand the advanced concepts of Java Programming

2. Understand JDBC and RMI concepts

3. Apply and analyze Java in Database

4. Handle different event in java using the delegation event model, event listener and class

5. Design interactive applications using Java Servlet, JSP and JDBC

SEM II	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Demonstrate AI problems and techniques

2. Understand machine learning concepts

3. Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning

4. Analyze the impact of machine learning on applications

5. Analyze and design of AI world problem for implementation and understand the dynamic behavior of a system.

SEM II	WEB SERVICES

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Understand web services and its related technologies

2. Understand XML concepts

3. Analyze on SOAP and UDDI model

4. Demonstrate the road map for the standards and future of web services

5. Analyze QoS enabled applications in web services.

SEM II	PRACTICAL: ADVANCED JAVA POGRAMMING LAB

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Understand to the implement concepts of Java using HTML forms, JSP &

JAR

2. Must be capable of implementing JDBC and RMI concepts

3. Able to write Applets with Event handling mechanism

4. To Create interactive web-based applications using servlets and jsp.

SEM II	PRACTICAL: WEB APPLICATION DEVELOPMENT AND HOSTING

Expected Course Outcomes:

On the successful completion of the course, student twill be able to:

1. Understand & implement the basic HTML tags to create static web pages

2. Capable of using hyperlinks, frames, images, tables, in a web page

3. Able to write dynamic web applications using HTML forms

4. Must be able to write dynamic web applications in PHP & HTML tags using

XAMPP.

SEM II	PRACTICAL: DATA MINING USING R

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1. Able to write programs using R for Association rules, Clustering techniques.

2. To implement data mining techniques like classification, prediction.

3. Able to use different visualizations techniques using R.

4. To apply different data mining algorithms to solve real world applications.