SPACES DEGREE COLLEGE, PAYAKARAOPETA

DEPT. OF COMPUTER SCIENCE

B.Sc SEMESTER-I
COURSE CODE : C1
COURSE TITLE: PROBLEM SOLVING IN C

Course Objective:

This course aims to provide exposure to problem-solving through programming. It introduces the concepts of the C Programming language.

Course Learning Outcomes:

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

CO 1. Understand the evolution and functionality of a Digital Computer.

CO 2. Apply logical skills to analyse a given problem

CO 3. Develop an algorithm for solving a given problem.

CO 4. Understand 'C' language constructs like Iterative statements, Array processing, Pointers, etc.

CO 5. Apply 'C' language constructs to the algorithms to write a 'C' language program.

B.Sc SEMESTER-II
COURSE CODE : C2
COURSE TITLE: DATA STRUCTURE USING C

Course Objectives:

To introduce the fundamental concept of data structures and to emphasize the importance of various data structures in developing and implementing efficient algorithms.

Course Learning Outcomes:

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

CO 1. Understand available Data Structures for data storage and processing.

CO2. Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph

CO3. Choose a suitable Data Structures for an application

CO4. Develop ability to implement different Sorting and Search methods

CO5. Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal

CO6. Design and develop programs using various data structures

CO7. Implement the applications of algorithms for sorting, pattern matching etc.

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B.Sc SEMESTER-III

COURSE CODE : C3

COURSE TITLE: DATABASE MANAGEMENT SYSTEMS

Course Objective:

The objective of the course is to introduce the design and development of databases with special emphasis on relational databases.

Course Learning Outcomes:

On completing the subject, students will be able to:

CO1. Gain knowledge of Database and DBMS.

CO2. Understand the fundamental concepts of DBMS with special emphasis on relational data model.

CO3. Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database

CO4. Model database using ER Diagrams and design database schemas based on the model.

CO5. Create a small database using SQL.

CO6. Store, Retrieve data in database.

B.Sc. SEMESTER-IV

COURSE CODE: C4

COURSE TITLE: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

Course Objective:

To introduce the fundamental concepts of Object-Oriented programming and to design & implement object oriented programming concepts in Java.

Course Learning Outcomes:

At the end of this course student will:

CO1. Understand the benefits of a well-structured program

CO2. Understand different computer programming paradigms

CO3. Understand underlying principles of Object-Oriented Programming in Java

CO4. Develop problem-solving and programming skills using OOP concepts

CO5. Develop the ability to solve real-world problems through software development in high-level programming language like Java.

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B.Sc. SEMESTER-IV

COURSE CODE: C5

COURSE TITLE: OPERATING SYSTEMS

Course Objective:

This course aims to introduce the structure and organization of a file system. It emphasizes various functions of an operating system like memory management, process management, device management, etc.

Course Learning Outcomes:

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

CO1. Know Computer system resources and the role of operating system in resource management with algorithms

CO2. Understand Operating System Architectural design and its services.

CO3. Gain knowledge of various types of operating systems including Unix and Android.

CO4. Understand various process management concepts including scheduling, synchronization, and deadlocks.

CO5. Have a basic knowledge about multithreading.

CO6. Comprehend different approaches for memory management.

CO7. Understand and identify potential threats to operating systems and the security features design to guard against them.

CO8. Specify objectives of modern operating systems and describe how operating systems have evolved over time.

CO9. Describe the functions of a contemporary operating system.

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B.Sc SEMESTER-V

COURSE CODE : C 6A

COURSE TITLE: Web Interface Designing Technologies

Course Objective:

CO 1. Understand and appreciate the web architecture and services.

CO 2. Gain knowledge about various components of a website.

CO3. Demonstrate skills regarding creation of a static website and an interface to dynamic website.

CO 4. Learn how to install word press and gain the knowledge of installing various pluginsto use in their websites.

B.Sc SEMESTER-V

COURSE CODE : C 7A

COURSE TITLE: Web Applications Development using PHP& MYSQL

Course Objective:

Students after successful completion of the course will be able to:

CO 1. Write simple programs in PHP.

CO 2. Understand how to use regular expressions, handle exceptions, and validate data usingPHP.

CO 3. Apply In-Built functions and Create User defined functions in PHP programming.

CO 4. Write PHP scripts to handle HTML forms.

CO 5. Write programs to create dynamic and interactive web based applications using PHPand MYSQL.

CO 6. Know how to use PHP with a MySQL database and can write database driven webpages.

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