Department of Computer Science Lesson Plan Session 2024-2025

BACS Semester-I

Fundamentals of Computer and Programming in C (C24COS101T)

July 2024 to November 2024	Topics
1 st Week	Basics of Computers: Definition of a Computer - Characteristics and
1 WCCK	Applications of Computers, Block Diagram of a Digital Computer –
	Classification of Computers based on size and working Central
	Processing Unit – I/O Devices
2 nd week	Storage: Primary, Auxiliary and Cache Memory – Memory Devices.
3 rd Week	Software, Hardware, Firmware. Operating System – Definition and
3 WCCK	Functions of an Operating System – MS-DOS, MS Windows –
	Desktop, Computer, Documents, Pictures, Music, Videos, Recycle Bin,
	Task Bar – Control Panel.
4 th Week	C Programming Fundamentals: Keywords, Variables and Constants,
- WCCK	Structure of a C Program, Input/Output
5 th Week	Operators & Expressions: Arithmetic, Unary, Logical. Bit-wise,
3 WCCK	Assignment & Conditional Operators
6 th Week	Decision Making: Decision making using ifelse. Else If Ladder;
0 Week	Switch, break. Continue and Goto statements.
7 th Week	Loop Control Structure: While and do-while, for loop and Nested for
/ WCCK	loop. Decision using switch; goto, break and continue statements.
8 th Week	Functions: Introduction, using functions – Function declaration/
o week	prototype – Function definition
9 th Week	function call – return statement – Passing parameters, Recursive
) West	functions
10 th Week	Arrays: Introduction, Declaration of Arrays, Accessing elements of
	the Array – Storing Values in Array
11 th Week	Passing array element to a function: Call by Value and Call by
	Reference,
12 th Week	One dimensional array -declaration, initialization, Accessing one
	dimensional array, Two dimensional Arrays-declaration, initialization,
	Accessing two dimensional arrays.
13 th Week	Strings: Introduction, String and Character functions, String
	Operations using String functions- strcat(), strcmp(), strcpy(),
	strlen().
14 th Week	Pointers: Declaring Pointer Variable, Pointer Expressions and Pointer
	Arithmetic, Passing Arguments to Functions using Pointers.
15 th Week	Dynamic Memory Allocation: malloc(), calloc(), realloc(), free()
	functions
16 th Week	Structures and Unions: Declaration of structures, Structure
	Initialization, Accessing structure members, Arrays of structure,
	Nested structures, Structure with pointers, Union
17 th Week	Doubt Clearance

Department of Computer Science Lesson Plan Session 2024-2025 Skill Enhancement Course Semester-I

C24SEC106T: Office Tools

July 2024 to	Topics
November 2024	
1st Week	Operating System - Definition, Functions, Types of Operating System
2 nd week	Basics of Popular Operating Systems, The User Interface
3 rd Week	Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu- selection
4 th Week	managing files and folders
5 th Week	Control panel – display properties, add/remove software and hardware, Common utilities.
6 th Week	Word Processing - Introduction to Word Processing,
7 th Week	Menus, Creating, Editing & Formatting Document,
8 th Week	Spell Checking, Printing, Views, Tables
9 th Week	modifying page setup, applying document themes,
10 th Week	applying document style sets, Inserting headers and footers
11 th Week	Spread Sheet: Elements of Electronics Spread Sheet, Applications
12 th Week	Creating and Opening of Spread Sheet, Menus
13 th Week	Manipulation of cells: Enter texts numbers and dates, Cell Height and Widths, copying of cells
14 th Week	Mathematical, Statistical and Financial function
15 th Week	Drawing different types of charts, Sort and Filter Data.
16 th Week	Creating Presentation, Type of presentation views. Using sound,
	Animation, Working with Objects, Printing.
17 th Week	Doubt Clearance