

## LESSON PLAN 2024-25

Name: Ms Sunita Arora

Department: Computer Science

Class: B.Sc-Computer Sc-1<sup>st</sup> Sem.

Paper: Problem Solving Through C

Paper Code: B23-CSE-101

Month: July

Week 4: Overview of C History, Importance of C, Structure of C Program

Month : August

Week 1: Character Set. Constants and Variable, Data Types, Assignment Statement.

Week 2: Input/output: Formatted I/O Function-, Input Functions viz. scanf(). getch(), getche(), getchar().gets()). output functions viz. printf(), putchar(), puts().

Week 3: Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators Operator Hierarchy: Arithmetic Expressions, Evaluation of Arithmetic Expression.

Week 4: Type Casting and Conversion. Decision making with if statement, if-else statement, nested if statement, else-if ladder

Month: September

Week 1: Looping Statements: for, while, and do-while loop,

Week 2: switch and break statement, goto statement, jumps in loop

Week 3: Arrays: One Dimensional arrays Declaration, Initialization and Memory representation: Two Dimensional arrays -Declaration, Initialization and Memory representation.

Week 4: Functions: definition, prototype, function call. passing arguments to a function; call by value; call by reference, recursive functions

Month: October

Week 1: Strings: Declaration and Initialization, String I/O, Array of Strings. String Manipulation Functions: String Length, Copy, Compare, Concatenate etc., Search for a Substring

Week 2: Pointers in C. Declaring and initializing pointers, accessing address and value of variables using pointers

Week 3: Pointers and Arrays , User defined data types: Structures Definition, Advantages of Structure,

Week 4: Diwali Break

Month: November

Week 1: Declaring structure variables accessing structure members, Structure members initialization

Week 2: Array of Structures; Unions - Union definition; difference between Structure and Union

Week 3: Revision and tests