

# **Lesson Plan(2024-25)**

**Class BCA Ist Semester**

**Subject: Problem Solving Through C**

**3<sup>rd</sup> Week, July 2024** Overview of C: History, Importance, Structure of C Program, Character Set, Constants and Variables, Identifiers and Keywords

**4<sup>th</sup> Week, July 2024** Data Types, Assignment Statement, Symbolic Constant.

**1<sup>st</sup> Week, Aug, 2024** Input/output: Formatted I/O Function-, Input Functions viz. scanf(), getch(), getche(), getchar(), gets(), output functions viz. printf(), putchar(), puts().

**2<sup>nd</sup> Week, Aug, 2024** Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators

**3<sup>rd</sup> Week, Aug, 2024** Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion

**4<sup>th</sup> Week, Aug, 2024** Decision making with if statement, ifelse statement, nested if statement, else-if ladder, switch and break statement, goto statement

**1<sup>st</sup> Week, Sept 2024** Looping Statements: for, while, and dowhile loop, jumps in loops.

**2<sup>nd</sup> Week, Sept 2024** Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays -Declaration, Initialization and Memory representation.

**3<sup>rd</sup> Week, Sept 2024** Functions: definition, prototype, function call, passing arguments to a function

**4<sup>th</sup> Week, Sept 2024** call by value; call by reference, recursive functions

**1<sup>st</sup> Week, Oct 2024** Strings: Declaration and Initialization, String I/O, Array of Strings,

**2<sup>nd</sup> Week, Oct 2024** String Manipulation Functions: String Length, Copy, Compare, Concatenate etc., Search for a Substring

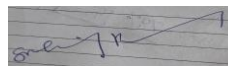
**3<sup>rd</sup> Week, Oct 2024(up to 26/10)** Pointers in C: Declaring and initializing pointers, accessing address and value of variables using pointers; Pointers and Arrays.

**27/10 to 3/11** Diwali Vacations

**4-7 Nov, 2024** User defined data types

**2<sup>nd</sup> Week, Nov 2024** Structures - Definition, Advantages of Structure, declaring structure variables, accessing structure members, Structure members initialization, Array of Structures; Unions - Union definition; difference between Structure and Union

**3<sup>rd</sup> Week, Nov 2024** Revision



**Sushil Kumar Sharma**

Associate Professor(Computer Science)