Govt.CoIlege,Aharwala(Bilaspur)
Lesson **Plan(2025-26)[Odd Semester]**

Name of Teacher	Amit Kumar
Department	Computer Science
Class&Section	BCA I (Sem. I)
Subject and Code	Problem Solving through C (B23-CAP-101)
Semester	Odd Semester

Topics

25" July 2025 to August 2025

Unit I: Overview of C: History, Importance, Structure of C Program, Character Set, Constants and Variables, Identifiers and Keywords, Data Types, Assignment Statement, Symbolic Constant.
Input/output: Formatted I/O Function-, Input Functions viz. scanf(), getch(), getche(), getchar(), gets(),

output functions viz. printf(), putch(), putchar(), puts()

September 2025

Unit II Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression,
Type Casting and Conversion. Decision making with if statement, ifelse statement, nested if statement, else-if ladder, switch and break statement, goto statement, Looping Statements: for, while, and dowhile loop, jumps in loops.

October 2025

Unit III: Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays -Declaration, Initialization and Memory representation.

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

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

November 2025

Unit IV: Pointers in C: Declaring and initializing pointers, accessing address and value of variables using pointers; Pointers and Arrays.

User defined data types: 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.