**Lesson Plan (Problem Solving through C) (BSc. Computer Science 1st Sem)**

| **Week** | **Dates (Thu–Fri–Sat)** | **Topics Covered** |
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| 1 | Jul 24, 25, 26 | Overview of C: History, Importance, Structure of C Program |
| 2 | Jul 31, Aug 1, 2 | Character Set, Constants and Variables, Identifiers and Keywords |
| 3 | Aug 7, 8, 9 | Data Types, Assignment Statement, Symbolic Constant |
| 4 | Aug 14, 15, 16 | Input/Output: Formatted I/O, scanf(), printf() |
| 5 | Aug 21, 22, 23 | Input Functions: getch(), getche(), getchar(), gets(); Output: putch(), putchar(), puts() |
| 6 | Aug 28, 29, 30 | Operators: Arithmetic, Relational, Logical, Bitwise, Unary |
| 7 | Sep 4, 5, 6 | Assignment, Conditional, Special Operators; Operator Hierarchy |
| 8 | Sep 11, 12, 13 | Arithmetic Expressions, Evaluation, Type Casting and Conversion |
| 9 | Sep 18, 19, 20 | Decision Making: if, if-else, nested if, else-if ladder |
| 10 | Sep 27 | switch, break, goto statements |
| 11 | Oct 2, 3, 4 | Looping: for, while, do-while, jumps in loops |
| 12 | Oct 9, 10, 11 | Arrays: One-dimensional – Declaration, Initialization, Memory Representation |
| 13 | Oct 16, 17, 18 | Arrays: Two-dimensional – Declaration, Initialization, Memory Representation |
| 14 | Oct 23, 24, 25 | Functions: Definition, Prototype, Call, Call by Value |
| 15 | Oct 30, 31, Nov 1 | Call by Reference, Recursive Functions |
| 16 | Nov 6, 7, 8 | Strings: Declaration, Initialization, String I/O, Array of Strings |
| 17 | Nov 13, 14, 15 | String Manipulation: Length, Copy, Compare, Concatenate, Substring Search |
| 18 | Nov 20, 21, 22 | Pointers: Declaration, Initialization, Accessing Address and Value |
| 19 | Nov 24 | Structures: Definition, Advantages, Declaration, Access, Initialization; Unions and Differences |