Lesson Plan
Session (2024-2025)

Class: B.C.A 1st SEM
Subject: C Programming
Course: BCA0104

Name of the Teacher: Prof. Shilpa Bajaj
Period: 5th (12:50pm-01:30pm)
Room No: 261 (Monday to Saturday)

S. No	Dates	Topics to be covered
Admissions of B.C.A	16-05-2024 to 23-07-2024	Admissions of B.C.A 1st sem.
Orientation	25-07-2024	Orientation Programme
Week 1	26-07-2024 to 31-07-2024	Introductory Concepts: Types of programming languages, Introduction to C.
Week 2	01-08-2024 to 03-08-2024	Some simple C programs, Desirable program characteristics.
Week 3	05-08-2024 to 10-08-2024	C Fundamentals: C character Set, Identifiers and keywords, data types, constants, variables and arrays, Declarations, expressions, statements, Symbolic constants.
Week 4	12-08-2024 to 17-08-2024	Operators and expressions: Arithmetic operators, unary operator, Relational and logical operators.
Week 5	20-08-2024 to 24-08-2024	Assignment operators, conditional operators.
Week 6	27-08-2024 to 31-08-2024	Data Input and Output: Preliminaries, singe character input, singe character output, Entering input data, writing output data, the gets() and puts() function.
Week 7	02-09-2024 to 07-09-2024	Control Statements: Preliminaries, Branching, Looping, Nested control statements
Week 8	09-09-2024 to 14-09-2024	Switch statement, break statement, The continue statement, The goto statement, The comma operator.
Week 9	16-09-2024 to 21-09-2024	Functions: A brief overview, Defining a function, accessing a function.
Week 10	23-09-2024 to 28-09-2024	Arrays: Defining an array, processing an array, passing arrays to functions, Multidimensional arrays, Arrays and strings.
Week 11	30-09-2024 to 05-10-2024	**Minor Test**
Week 12	07-10-2024 to 10-10-2024	Function prototypes, passing arguments to a function, recursion.
Week 13	14-10-2024 to 19-10-2024	Pointers: Fundamentals, Pointer declarations, Passing pointers to the functions, pointers and one dimensional array.
Week 14	21-10-2024 to 26-10-2024	Dynamic memory allocation, Operations on pointers, arrays of pointers.
Week 15	29-10-2024 to 03-11-2024	**Diwali Break**
Week 16	04-11-2024 to 09-11-2024	Revision , Student's Presentation and Doubt Clearing Session, Remedial Classes
Week 17	11-11-2024 onward	**Practical and Term End Examination**

Practical Plan
Session (2024-2025)

Class: BCA 1st Sem.   **Name of the Teacher:** Prof. Shilpa Bajaj
Subject: C Programming Lab-I   **Course Code:** BCA0104(P)
LABS: Lab-I, Lab-II

Serial No.	Month	List of Practicals
Practical:1-10	August	Basic programs using forms (Addition, subtraction, multiplication, division, area of rectangle, circle, square, triangle).
Practical:11-20	September	Conditional statements programs using forms (if, if-else, nested if else, else if ladder, select case). Looping statements using forms (for loop, while loop, do-while loop).
Practical:21-30	October	Arrays using forms(Matrix addition, matrix multiplication, Transpose, linear search, binary search), Functions (Call by value, Call by reference)

Coordinator BCA   **Principal**