



Government Girls Polytechnic Bilaspur

Department of Computer Science & Engineering

LESSON PLAN
SESSION: Jan-June 2025

Subject: Programming in 'C'

Subject Code: 2022274(022)

Semester: II

Name of the Subject Teacher: Mr Nuresh Kumar Dewangan

Unit	Topics/Subtopics to be covered	No. of periods planned
Unit-1 Fundamentals of C	1.1 Introduction to C – History, Features, Structure of C program	1
	1.2 Character set, C tokens – Keywords, Identifiers, Constants, Variables	1
	1.3 Data types – Primary, Derived, User defined	1
	1.4 Operators – Arithmetic, Relational, Logical, Assignment, Increment/Decrement, Conditional, Bitwise, Special	1
	1.5 Expressions, Precedence and Associativity, Type conversion	1
	1.6 Managing I/O – printf(), scanf(), getchar(), putchar(), gets(), puts()	1
	Revision – Unit 1	1
Unit-2 Control Structures	2.1 Decision Making – if, if-else, nested if, else-if ladder	1
	2.2 Switch statement	1
	2.3 Looping – while, do-while, for loop	1
	2.4 Nested loops	1
	2.5 Jump statements – break, continue, goto, exit()	1
	Revision – Unit 2	1
	Quiz – 1	1
Unit-3 Arrays and Strings	3.1 Introduction to Arrays – Declaration, Initialization, Accessing elements	1
	3.2 One dimensional arrays	1
	3.3 Two dimensional arrays	1
	3.4 Multidimensional arrays	1
	3.5 Introduction to Strings – Declaration, Initialization	1
	3.6 String handling functions – strlen(), strcpy(), strcat(), strcmp(), strcmp(), strstr(), strchr(), strlwr()	1

	Revision – Unit 3	1
	Quiz – 2	1
Unit-4 Functions and Pointers	4.1 Introduction to Functions – Definition, Declaration, Calling	1
	4.2 Types of functions – Library functions, User defined functions	1
	4.3 Parameter passing – Call by value, Call by reference	1
	4.4 Recursion	1
	4.5 Storage classes – auto, register, static, extern	1
	4.6 Introduction to Pointers – Declaration, Initialization, Dereferencing	1
	4.7 Pointer arithmetic, Pointers and arrays	1
	4.8 Pointers and functions	1
	Revision – Unit 4	1
	Quiz – 3	1
Unit-5 Structures, Unions and File Handling	5.1 Introduction to Structures – Declaration, Initialization, Accessing members	1
	5.2 Array of structures, Nested structures	1
	5.3 Pointers to structures	1
	5.4 Introduction to Unions – Difference between Structure and Union	1
	5.5 Introduction to File Handling – Opening, Closing, Reading, Writing files	1
	5.6 File modes, fread(), fwrite(), fprintf(), fscanf()	1
	Revision – Unit 5	1
	FULL SYLLABUS REVISION	2
	TOTAL CLASS	41

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