Govt. Polytechnic Education Society, Manesar
Lesson Plan

NAME OF THE FACULTY   :   Pooja
DESCIPLINE   :   Computer Engineering
SEMESTER   :   3rd
SUBJECT   :   Programming in C
DURATION OF LESSON PLAN   :   15 weeks (from Aug- 2025 to Nov- 2025)

WORK LOAD (LECTURE/PRACTICAL) PER WEEK (IN HOURS):- LECTURE-03, PRACTICAL-04 PER GROUP

WEEK S.N.	THEORY		PRACTICAL		
	Lecture / Hrs.	TOPIC (Including Assignment/Test)	Practical /Hrs.		Lab Experiments
1st	1	**UNIT I: Basics of C Programming** Steps in development of a program, Flow charts.	Group-1	1-2-3-4	Programming exercises on executing and editing a C program.
	2	Steps in development of a program, Flow charts.	Group-2	1-2-3-4	
	3	Algorithm development.			
2nd	4	Steps in development of Programme Debugging.	Group-1	1-2-3-4	Programming exercises on defining variables and assigning values to variables.
	5	I/O statements. Constants and variables.	Group-2	1-2-3-4	
	6	Data types.			
3rd	7	Operators & Expressions.	Group-1	1-2-3-4	Programming exercises on arithmetic and relational operators.
	8	Formatted and Unformatted IO Statements.	Group-2	1-2-3-4	
	9	Decision making with IF – statement, IF – Else and Nested IF.			
4th	10	While and do-while, for loop, Break. Continue, goto and switch statements.	Group-1	1-2-3-4	Programming exercises on arithmetic expressions and their evaluation.
	11	**UNIT II: Pointers and Functions** Introduction to pointers.	Group-2	1-2-3-4	
	12	Address operator and pointers Declaring.			
5th	13	Initializing pointers	Group-1	1-2-3-4	Programming exercises on formatting input/output using print f and scan f and their return type values.
	14	Declaring and Initializing Single pointer **Assignment-1**	Group-2	1-2-3-4	
	15	**Sessional Test-1**			
6th	16	Introduction to functions.	Group-1	1-2-3-4	Programming exercises using if statement.
	17	Function Declaration.	Group-2	1-2-3-4	
	18	Function calling, definition Parameter Passing.			
7th	19	Function Call - by value/reference, Global and Local Variables	Group-1	1-2-3-4	Programming exercises using if – Else.
	20	**UNIT III: Arrays and Strings** Introduction to Arrays	Group-2	1-2-3-4	
	21	Array Declaration, Length of array Single dimensional array.			

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	Lecture / Hrs.	TOPIC (Including Assignment/Test)		Practical /Hrs.		Lab Experiments
8th	22	Array Declaration, Length of array muti dimensional array.	Group-1	1-2-3-4		Programming exercises on switch statement.
	23	Arrays of characters Introduction of Strings.	Group-2	1-2-3-4		
	24	String declaration and definition String related function.				
9th	25	String related function i.e. strlen, strcpy, strcmp.	Group-1	1-2-3-4		Programming exercises on do – while, for statement.
	26	Passing an array to function	Group-2	1-2-3-4		
	27	Passing a Pointers to an array and strings.				
10th	28	UNIT IV: Structures and Unions Introduction- Declaration of structures.	Group-1	1-2-3-4		Simple programs using pointers.
	29	Accessing structure members. Assignment-2	Group-2	1-2-3-4		
	30	Sessional-2				
11th	31	Structure Initialization.	Group-1	1-2-3-4		Programs on one-dimensional, two-dimensional array.
	32	Pointer to a structure.	Group-2	1-2-3-4		
	33	Introduction- Declaration of structures				
12th	34	Introduction- Union.	Group-1	1-2-3-4		Programs for comparing two strings.
	35	Declaration and accessing of Union Members.	Group-2	1-2-3-4		
	36	Comparing Structure and Union.				
13th	37	UNIT V: File Handling Introduction	Group-1	1-2-3-4		Simple programs using functions
	38	Opening and Closing of File.	Group-2	1-2-3-4		
	39	Opening and Closing of File.				
14th	40	Modes of Accessing Files.	Group-1	1-2-3-4		Simple programs using structures and union.
	41	Modes of Accessing Files.	Group-2	1-2-3-4		
	42	Reading in the File				
15th	43	Writing in the File	Group-1	1-2-3-4		Program on Reading and Writing data to a file
	44	**Assignment-3**	Group-2	1-2-3-4		
	45	**Sessional-3**				