Government Polytechnic,
Panchkula
Lesson Plan (Odd Semester)

Name of the Faculty : Dr. Meenu Nain
Discipline : Computer Engineering
Department : Computer Engineering
Semester : 3rd
Subject : Programming in C
Lesson Plan Duration : 16 weeks (from september, 2022)
Work load (Lecture / Practical) per week(in hours): Lectures - 03, Practicals - 06

	Theory		**Practical**	
Week	**Lecture day**	**Topic (Including assignment / test)**	**Practical Day**	**Topic**
1st	1	Steps in development of a program	1st	Programming exercises on executing and editing a C program.
	2	Flow charts,		
	3	Algorithm development		
2nd	4	Programme Debugging		
	5	I/O statements	2nd	Programming exercises on defining variables and assigning values to variables
	6	Constants, variables		
3rd	7	assign statements		
	8	data types		
	9	Operators and Expression	3rd	Programming exercises on arithmetic and relational operators
4th	10	Operators and Expression	4th	Programming exercises on arithmetic expressions and their evaluation.
	11	Unformatted and Formatted IOS		
	12	Data Type Casting	5th	Programming exercises on formatting input/output using printf and scanf and their return type values
5th	13	Introduction to Control Structures	6th	Programming exercises using if statement.
	14	Decision making with IF – statement		
	15	IF – Else	7th	Programming exercises using if – Else.
6th	16	Nested IF		
	17	While and do-while,	8th	Programming exercises on do – while, statement.
	18	for loop		Programming exercises on for – statement.
7th	19	Break. Continue, goto	9th	Programming exercises on switch

	20	switch statements		statement.
	21	Introduction to pointers	10th	Simple programs using pointers.
8th	22	Address operator and pointers		
	23	Declaring pointers		
	24	Initializing Pointers		
9th	25	Single pointer,		
	26	Introduction to functions	11th	Simple programs using functions
	27	Global and Local Variables		
10th	28	Function Declaration		
	29	Standard functions		
	30	Parameters and Parameter Passing		
11th	31	Call - by value/reference		
	32	Introduction to Arrays	12th	Programs on one-dimensional array.
	33	Array Declaration, Length of array		
12th	34	Single Array.		
	35	Multidimensional Array	13th	Programs on two-dimensional array.
	36	Arrays of characters		
13th	37	Introduction of Strings	14th	Programs for putting two strings together.
	38	String declaration and definition		
	39	String Related function i.e. strlen, strcpy		
14th	40	String Related function i.e. strcmp	15th	Programs for comparing two strings.
	41	Passing an array to function		
	42	Pointers to an array and strings.		
15th	43	Pointers to an strings.		
	44	Declaration of structures	16th	Simple programs using structures Simple programs using union.
	45	Accessing structure members		
16th	46	Structure Initialization		
	47	Pointer to a structures,		
	48	Unions		