Government Polytechnic Umri Kurukshetra
Lesson Plan

Name of the Faculty   : Deepak Rohilla

Department   : Computer Engineering

Semester/ Subject   : 3rd/ Programming in C

Lesson Plan Duration: 16 weeks (from September, 2022 to Jan, 2023)

Week	Lect day	Theory Topic (Including assignment / test)	Practical
1st	1	Steps in development of a program	Programming exercises on executing and editing a C program.
	2	Flow charts,	
	3	Algorithm development	
2nd	4	Programme Debugging	
	5	I/O statements	Programming exercises on defining variables and assigning values to variables
	6	Constants, variables	
3rd	7	assign statements	
	8	data types	
	9	Operators and Expression	Programming exercises on arithmetic and relational operators
4th	10	Operators and Expression	Programming exercises on arithmetic expressions and their evaluation.
	11	Unformatted and Formatted IOS	
	12	Data Type Casting	Programming exercises on formatting input/output using printf and scanf and their return type values
5th	13	Introduction to Control Structures	Programming exercises using if statement.
	14	Decision making with IF – statement	
	15	IF – Else	Programming exercises using if – Else.
6th	16	Nested IF	
	17	While and do-while,	Programming exercises on do – while, statement.
	18	for loop	Programming exercises on for – statement.
7th	19	Break. Continue, goto	Programming exercises on switch statement.
	20	switch statements	
	21	Introduction to pointers	Simple programs using pointers.
8th	22	Address operator and pointers	
	23	Declaring pointers	
	24	Initializing Pointers	
9th	25	Single pointer,	
	26	Introduction to functions	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	Programs on one-dimensional array.
	33	Array Declaration, Length of array	
12th	34	Single Array.	
	35	Multidimensional Array	Programs on two-dimensional array.
	36	Arrays of characters	

13th	37	Introduction of Strings	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	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	Simple programs using structures Simple programs using union.
	45	Accessing structure members	
16th	46	Structure Initialization	
	47	Pointer to a structures,	
	48	Unions	