

G.D. Govt. Polytechnic Hisar

Lesson Plan

Name of the Faculty : Manish Nagar
Discipline : Computer Engineering
Semester : 3rd
Subject : Programming in C (PIC)

Week	Theory		Practical	
	Day	Topic(including assignment/test)	Day	Topic (4 labs /week)
1 st	1	Steps in development of a program,	1	Program on executing and editing a C program.
	2	Flowcharts, Algorithm development		
	3	Program Debugging ,I/O statements, Constants, variables	2	Program on defining variables and assigning values to variables.
2 nd	4	datatypes, Operators & Expressions,	3	Program on arithmetic and relational operators.
	5	Unformatted and Formatted IOS, DataType Casting		
	6	Decision making with IF –statement, IF– Else and Nested IF	4	Hands on Practice
3 rd	7	While and do-while loop	5	Program on arithmetic expressions and their evaluation.
	8	for loop, Break, Continue statements		
	9	Goto and switch statements	6	Program on formatting input/output using printf and scanf and their Return type values.
4 th	10	Introduction to pointers, Address operator And pointers	7	Hands on Practice
	11	Declaring and initializing pointers, Single pointer,		
	12	Introduction to functions	8	Program using if-statement.
5 th	13	Function Declaration, calling, definition	9	Program using if– Else.
	14	Parameter Passing, Call-by value/reference,		
	15	Global and Local Variables	10	Program on switch-statement.
6 th	16	Revision	11	Hands on Practice
	17	Revision		
	18	Sessional I	12	Hands on Practice
7 th	19	Introduction to Arrays, Array Declaration, Length of array	13	Program on do-while loop
	20	Single dimensional array		
	21	Multidimensional array	14	Program on for-loop

8 th	22	Arrays of characters	15	Simple program using pointers.
	23	Introduction of Strings,String declaration and definition		
	24	String related functionS i.e. strlen, strcpy, strcmp	16	Program on one-dimensional array.
9 th	25	Passing an array to function	17	Hands on Practice
	26	Pointers to anarray and strings.		
	27	Declaration of structures, Accessing Structure members	18	Program on two-dimensional array.
10 th	28	Revision	19	Hands on Practice
	29	Revision		
	30	Sessional2	20	Hands on Practice
11 th	31	Structure Initialization	21	Program for putting two strings together.
	32	Pointer to a structures,		
	33	Unions	22	Program for comparing two strings.
12 th	34	ClassTest	23	Simple program using functions
	35	Opening of File		
	36	Closing of File	24	Hands on Practice
13 th	37	Modes of Accessing Files	25	Simple program using structures.
	38	Reading the File		
	39	Writing in the File	26	Hands on Practice
14 th	40	Class test	27	Simple program using union.
	41	Revision of Unit1		
	42	Revision of Unit2	28	Program on Reading and Writing data to a file.
15 th	43	Revision of Unit3	29	Hands on Practice
	44	Revision of Unit4		
	45	Sessional3	30	Hands on Practice