

G. B. N. Govt.Polytechnic, Nilokheri

Lesson Plan

Name of the Faculty : Dr. Mansi Lather
Discipline : Computer Engineering
Semester : 3rd
Subject : Programming in C (PIC)
Lesson Plan Duration : 15 weeks (from August 2024 to November 2024)
Work Load (Lecture) per week (in hours): Lectures-02 and Lab-04

Week	Theory		Practical	
	Day	Topic (including assignment / test)	Day	Topic
1 st	1	Steps in development of a program,	1	Program on executing and editing a C program.
	2	Flow charts, Algorithm development		
	3	Programme Debugging, I/O statements, Constants, variables	2	Program on defining variables and assigning values to variables.
2 nd	4	data types, Operators & Expressions,	3	Program on arithmetic and relational operators.
	5	Unformatted and Formatted IOS, Data Type 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 1	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	muti dimensional array		
8th	22	Arrays of characters	15	Simple program using pointers.
	23	Introduction of Strings, String declaration and definition		
	24	String related function i.e. strlen, strcpy, strcmp	16	Program on one-dimensional array.
9th	25	Passing an array to function	17	Hands on Practice
	26	Pointers to an array and strings.		
	27	Declaration of structures, Accessing structure members	18	Program on two-dimensional array.
10th	28	Revision	19	Hands on Practice
	29	Revision		
	30	Sessional 2	20	Hands on Practice
11th	31	Structure Initialization	21	Program for putting two strings together.
	32	Pointer to a structures,		
	33	Unions	22	Program for comparing two strings.
12th	34	Class Test	23	Simple program using functions
	35	Opening of File		
	36	Closing of File	24	Hands on Practice
13th	37	Modes of Accessing Files	25	Simple program using structures.
	38	Reading the File		
	39	Writing in the File	26	Hands on Practice
14th	40	Class test	27	Simple program using union.
	41	Revision of Unit 1		
	42	Revision of Unit 2	28	Program on Reading and Writing data to a file.
15th	43	Revision of Unit 3	29	Hands on Practice
	44	Revision of Unit 4		
	45	Sessional 3	30	Hands on Practice