G.G.N.J.Govt.Polytechnic, Jhajjar

Lesson Plan

Name of the Faculty : SHAKTI RAJ SINGH
Discipline : ComputerEngineering
Semester : 3rd
Subject : Programmingin C (PIC)
Lesson Plan Duration : 15weeks (04.08.25 to 26.11.25), Periods/Week -L-3, P-4

Week	Theory		Practical	
	Day	**Topic(including assignment/test)**	**Day**	**Topic (4 labs /week)**
1st	1	Steps in development of a program,	1	Program on executing and editing a C program.
	2	Flowcharts,Algorithm development		
	3	Program Debugging ,I/Ostatements, Constants, variables	2	Program on defining variables and assigning values to variables.
2nd	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
3rd	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.
4th	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.
5th	13	Function Declaration,calling,definition	9	Program using if– Else.
	14	Parameter Passing, Call-by value/reference,		
	15	Global and LocalVariables	10	Program on switch-statement.
6th	16	Revision	11	Hands on Practice
	17	Revision		
	18	Sessional1	12	Hands on Practice
7th	19	Introductionto Arrays, Array Declaration, Length of array	13	Program on do-while loop
	20	Single dimensional array	14	Program on for-loop
	21	Multidimensional array		

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