Lesson Plan

Discipline : Computer Engg.

Semester : 3rd

Subject : Programming in C

Lesson Plan Duration : 15 weeks

Workload (Lecture / Practical) per week (in hours): Lectures-03, Practical-06

Week		Theory		Practical		
	Lecture day	Topic (including assignment / test)	Practical Day	Topic		
	1 st	Steps in development of a program				
1st	2 nd	Flow charts	1 & 2	Programming exercises on executing and editing a C program		
1	3 rd	Algorithm development, Program Debugging	1 0 2			
	4 th	I/O statements, assign statements		Programming exercises on defining variables and assigning values to variables.		
2 nd	5 th	Constants, variables and data types	3 &4			
	6 th	Operators and Expressions				
	7 th	Revision				
3 rd	8 th	Unformatted and Formatted IOS	5 & 6	Programming exercises on arithmetic and relational operators.		
	9 th	Unformatted and Formatted IOS	0 4 0			
	10 th	Data Type Casting		Programming exercises on arithmetic expressions and their evaluation.		
4 th	11 th	Revision	7 & 8			
	12 th	Introduction to Control Structures				
	13 th	Decision making with IF – statement		Programming exercises on formatting input/output using printf and scanf and their return type values		
5 th	14 th	IF – Else and Nested IF	9 & 10			
	15 th	While and do-while, for loop				
6 th	16 th	While and do-while, for loop		Programming exercises using if statement. Programming exercises using if – Else.		
	17 th	Break. Continue, goto	11 & 12			
	18 th	switch statements				
7 th	19 th	Introduction to pointers	13 & 14	Programming exercises on		
	20 th	Address operator and pointers		switch statement		
	21 th	Declaring and initializing pointers				

Week		Theory	Practical		
	Lecture day	Topic (including assignment / test)	Practical Day	Topic	
	22 nd	Single pointer,		Programming exercises on do – while, statement.	
8 th	23 rd	Revision	15 & 16		
	24 th Revision			,	
9 th	25 th	Introduction to functions		Programming exercises on for – statement.	
	26 th	Global and Local Variables	17 & 18		
	27 th	Function Declaration Standard functions			
10 th	28 th	Parameters and Parameter Passing			
	29 th	Call - by value/reference	19 & 20	Simple programs using pointers.	
	30 th	Revision			
11 th	31 st	Array Declaration, Length of array Single and Multidimensional Array.		Programs on one-dimensional array. Programs on two-dimensional array.	
	32 nd	Arrays of characters	21 & 22		
	33 rd	Revision]		
12 th	34 th	Introduction of Strings		(i) Programs for putting two strings together. (ii) Programs for comparing two strings.	
	35 th	String declaration and definition	23 & 24		
	36 th	Revision			
13 th	37 th	String Related function i.e. strlen, strcpy, strcmp	05.000	Simple programs using functions	
	38 th	Passing an array to function	25 & 26		
	39 th	Pointers to an array and strings.			
14 th	40 th	Revision			
	41 st	Declaration of structures Accessing structure members	27 & 28	Simple programs using structures.	
	12nd	Unions	1		
15 th	43 rd	Revision	_	Simple programs using union.	
	44 th	Revision	29 & 30		
	45 th Revision				