Lesson Plan

Name of Faculty : **Krishan Kumar**

Discipline : **Computer Engg.**

Semester : **3rd**

Subject : **Programming in C**

Lesson Plan Duration : **15 weeks**

Workload (Lecture / Practical) per week (in hours): Lectures-03, Practical-08

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

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	Lecture day	Topic (including assignment / test)		Practical Day	Topic .
8th	22nd	Parameter Passing		15 & 16	Programming exercises on do – while, statement.
	23rd	Call - by value/reference			
	24th	Global and Local Variables			
9th	25th	Introduction to array,		17 & 18	Programming exercises on for – statement.
	26th	Array Declaration, Length of array			
	27th	Single Dimensional Array			
10th	28th	Multidimensional Array.		19 & 20	Simple programs using pointers.
	29th	Array of characters			
	30th	Introduction of Strings			
11th	31st	String declaration and definition		21 & 22	Programs on one-dimensional array. Programs on two-dimensional array.
	32nd	String Related function strlen			
	33rd	strcpy, strcmp			
12th	34th	Passing an array to function		23 & 24	(i) Programs for putting two strings together. (ii) Programs for comparing two strings.
	35th	Pointers to an array			
	36th	Pointers to strings			
13th	37th	Declaration of structures		25 & 26	Simple programs using functions
	38th	Accessing structure members			
	39th	Structure Initialization			
14th	40th	Pointer to Structure		27 & 28	Simple programs using structures. Simple programs using union.
	41st	Unions			
	42nd	Opening and closing of files			
15th	43rd	Modes of Accessing Files		29 & 30	Program on Reading & writing data to a file.
	44th	Reading the File			
	45th	writing in the File			