

Lesson Plan

Name of faculty : **Rahul Kaushik**
Discipline : **Computer Engineering**
Semester : **3rd**
Subject : **Programming in C**
Lesson Plan Duration : **15 Weeks**

Work Load(Lecture/ Practical) per week (in hours): Lectures-03

Week	Theory		Practical	
	Lecture Day	Topic(including assignment/Test)	Practical Day	Topic
1st	1st	Algorithm and Programming Development-Steps in development of a program	1st	Programming exercises on executing and editing a C program.
	2nd	Flow charts		
	3rd	Algorithm development, Program Debugging	2nd	Revision of Practical Covered on the last day.
2nd	1st	I/O statements	3rd	Programming exercises on defining variables and assigning values to variables
	2nd	assign statements		
	3rd	Constants, variables, data types	4th	Revision of Practical Covered on the last day.
3rd	1st	Operators	5th	Programming exercises on arithmetic and relational
	2nd	Expressions		
	3rd	Unformatted and Formatted IOS	6th	Revision of Practical Covered on the last day.
4th	1st	Data Type Casting	7th	Programming exercises on arithmetic expressions and their
	2nd	Revision of Unit 1 & Unit 2		

				evaluation
	3rd	Assignment 1- Unit1 & Unit 2 and class test	8th	Revision of Practical Covered on the last day.
5th	1st	Control Structures - Introduction	9th	Programming exercises on formatting input/output using printf and scanf and their return
	2nd	Decision making with IF – statement		
	3rd	IF – Else, nested-if statement	10th	Revision of Practical Covered on the last day.
6th	1st	While Loop	11th	(i) Programming exercises using if statement (ii) Programming exercises using if – Else
	2nd	do-while Loop, for loop		
	3rd	Break. Continue statements	12th	Revision of Practical Covered on the last day.
7th	1st	goto and switch statements	13th	Programming exercises on switch statement
	2nd	Revision of Unit 3		
	3rd	Pointers- Introduction to pointers	14th	Revision of Practical Covered on the last day.
8th	1st	Address operator	15th	Programming exercises on do –while, statement
	2nd	Address operator and pointers		
	3rd	Declaring and initialising pointers	16th	Revision of Practical Covered on the last day.
9th	1st	Single pointer	17th	Programming exercises on for –statement
	2nd	Revision of Unit 4		
	3rd	Functions-Introduction to functions	18th	Revision of Practical Covered on the last day.
10th	1st	Global and Local Variables	19th	Simple programs using pointers
	2nd	Function Declaration		
	3rd	Standard functions	20th	Revision of Practical Covered on the last day.

11th	1st	Parameters and Parameter Passing	21st	Programs on one-dimensional array
	2nd	Call - by value and Call-by reference		
	3rd	Revision of Unit 5	22nd	Revision of Practical Covered on the last day.
12th	1st	Class test	23rd	Programs on two-dimensional array
	2nd	Assignment 2- Unit 3,Unit4 & Unit 5		
	3rd	Arrays & String- Introduction to arrays, Array Declaration, Length of array	24th	Revision of Practical Covered on the last day.
13th	1st	Single and Multidimensional Arrays	25th	(i) Programs for putting two strings together. (ii) Programs for comparing two strings.
	2nd	Arrays of characters		
	3rd	Introduction of Strings- String declaration and definition, string functions	26th	Revision of Practical Covered on the last day.
14th	1st	Passing an array to function	27th	Simple programs using functions
	2nd	Pointers to an array and pointers to strings		
	3rd	Revision of Unit 6	28th	Revision of Practical Covered on the last day.
15th	1st	Structures and Unions - Declaration of structures	29th	Simple programs using Structures and unions
	2nd	Accessing structure, union members and structure, union initialization		
	3rd	Pointer to a structures and Revision-Unit 7.	30th	Revision of Practical Covered on the last day.