KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

(Deemed to be University)

SCHOOL OF COMPUTER ENGINEERING

SPRING SEMESTER 2019

Course Code: CS-1093

Course title: Computer Programming Lab

DATE WISE(WEEKLY) LESSON PLAN

Calendar Week (Monday to Sunday)	LAB Days	Module#	Theory	Lab Manual Reference
Dec 1st week	1	**1. Introduction**	Introduction to computer fundamentals, memory	LAB#1: Linux commands
Dec 2nd week	2,3	**1. Introduction**	Introduction to programming languages Number system representation (Binary-decimal)	● Number system problems ● Small formula based problems
Dec 3rd week	4	**1. Introduction** **2. Variables, constants, Data types, Operators**	Introduction to Flowchart & Algorithm Data types Arithmetic operators	LAB#2 : Simple Input output statements, simple mathematical operations

Winter Vacation				
Jan 2nd week	5,6	**2.Variables, constants, Data types, Operators**	Operators and Expressions, Type Casting	LAB#2: Operators and Expressions
Jan 3rd week	7,8	**3.Control statements**	Branching Statements	LAB#3 : If - else, Switch cases
Jan 4th Week	9,10	**3.Control statements**	Control Statements	LAB#4 :Loop - while, do-while, for loop
Jan 5th Week	11,12	**3.Control statements**	More programs on branching and looping	
Feb 1st week	13, 14	**4.Array**	Introduction to Array (1D)	LAB#5: Array (1D) programs
Feb 2nd week	15, 16	**4.Array**	2D array. More programs on array	LAB#5: Array programs
Feb 3rd week	17,18	**5.Functions**	Declaring, defining and calling functions.Parameter Passing – call-by-value and call-by-reference,	LAB#6: Functions
	MID SEMESTER EXAMINATION : 24. 02. 2020 – 29.02.2020			
March 1st week	19, 20	**5.Functions**	Recursion More practice on Functions	LAB#6: Functions
March 2nd week	21,22	**6. Storage class** **7. Character Arrays and Strings**	Storage class String manipulations	LAB#7: Strings
March 3rd week	23,24	**8.Pointer**	Pointer variable, Pointer Arithmetic, Passing parameters by reference, Pointer to pointer, Pointer to functions	LAB#8:Pointer
March 4th	25,26	**10.Dynamic**	Memory allocation functions (malloc,	LAB#8:Pointer

week		**Memory Allocation 9.User Defined Data Types – Structures and Unions**	calloc, realloc, etc.) Memory de-allocation function (free) Structure: definition, structure variable, creation, initialization and assignment Pointers to structures,Union and their uses,Enum and their uses	LAB#9: Structure and union programs
March 5th week/ April1st week	27	**11.File Handling**	File operations - opening, closing, reading, writing etc. Command line arguments Bitwise operators Macros	**LAB#10 :** File Handling in C
April 2nd week **(5 to 10 Apr)**	**Sessional** **END SEMESTER EXAMINATION : 16.4.2020 - 30.4.2020**			