Lesson Plan

Name of the Faculty   :   **Ms. Gurpreet Bansal (ASSTT. PROFESSOR)**

Discipline   :   **BCA**

Semester   :   **2ND**

Subject   :   **Programming in C (BCA-104 B) & BCA-124B**

Lesson Plan Duration   :   **15 weeks (from January, 2018 to April, 2018)**

Work Load (Lecture/Practical) per week (in hours):Lecture: 3, Practical:2

Week	Theory		Practical	
	Lecture Day	Topic(including Assignment/Test)	Practical Day	Topic
1st	1st	Problem analysis, need for programmed languages, introduction to algorithms	1st	Simple Algorithms
	2nd	Flow charts and decision tables, structured programming and modular programming	2nd	Simple Flowcharts, Decision Tables Simple C Programs
	3rd	C character set, identifiers and keywords, Data types: declaration and definition,		
	T1	Tutorial---review of lectures		
2nd	4th	Type conversion, Types of error,	3rd	Programs to Implement Type Conversion
	5th	Preprocessor directives, 'C' macro and macro vs function.	4th	Programs to Implement Preprocessor Directives
	6th	Assignment on above topics/ Test 1		
	T2	Tutorial---problem/review of lectures		
3rd	7th	Unformatted & formatted I/O function in C	5th	Programs to Implement Input Output functions
	8th	Input Functions	6th	Programs to Implement Input Output functions
	9th	Output Functions		
	T3	Tutorial---problem/ review of lectures		
4th	10th	Operators	7th	Programs to

				Implement Operators
	11th	Operators	8th	Programs to Implement Operators
	12th	Assignment on above topics/ Test 2		
	T4	Tutorial---problem/review of lectures		
5th	13th	Conditional Constructs	9th	Programs to Implement Conditional Constructs
	14th	Looping Constructs	10th	Programs to Implement Looping Constructs.
	15th	Function Definition, prototypes Passing parameters, recursion, Standard library/user-defined functions.		Program to implement Simple functions, Recursion & Library functions
	T5	Tutorial---problem/review of lectures		
6th	16th	Introduction to arrays: Defining and processing an array, 1-Dim Arrays, 2 Dim Arrays	11th	Program to implement 1-dim and 2-dim arrays
	17th	Passing arrays to functions	12th	Program to implement arrays to functions
	18th	Assignment on above topics/ Test 3		
7th	19th	Handling of character strings	13th	Program to implement strings
	20th	Intro to Pointers : Declaration, operations on pointers,	14th	Program to implement Pointers
	21st	Array of pointers, Pointers to arrays		
	T6	Tutorial---problem/review of lectures		
8th	22nd	Pointer Arithmetic	15th	Program to implement strings
	23rd	Using Pointers to pass Parameters to Functions	16th	Program to implement strings
	24th	Assignment on above topics/ Test 4		
	T7	Tutorial---problem/review of lectures		
9th	25th	Defining and processing a structure, user defined data type	17th	Program to implement structures

	26th	Structure and Pointers	18th	Program to implement structures
	27th	Nested structure,		
	T8	Tutorial---problem/review of lectures		
10th	28th	Self-referential structures, unions.	19th	Program to implement Unions
	29th	Storage classes, automatic, external, and static variables.	20th	Program to implement storage classes
	30th	Assignment on above topics/ Test5		
	T9	Tutorial---problem/review of lectures		
11th	31st	Data files:Opening, closing,	21st	Program to implement File Handling
	32nd	Creating, and processing Files	22nd	Program to implement File Handling
	33rd	Unformatted data field. File		
	T10	Tutorial---problem/review of lectures		
12th	34th	File Management Functions	23rd	Program to implement File Management Functions
	35th	Sorting (Bubble sort)	24th	Program to implement Sorting
	36th	Selection sort		
	T11	Tutorial---problem/review of lectures		
13th	37th	Searching (Linear Search)	25th	Program to implement Searching
	38th	Searching (Binary Search)	26th	Program to implement Searching
	39th	Assignment on above topics/ Test6		
	T12	Tutorial---problem/ review of lectures		
14th	40th	Revision	27th	Lab Assignments
	41st	Revision	28th	Lab Assignments
	42nd	Problems & Revision		
15th	43rd	Problem session	29th	Lab Assignments
	44th	Problem session	30th	Lab Assignments
	45th	Problem session		

IMPORTANT DATES (KEY DATES)

 * 14 to 16 February, 2018 (Wednesday -Friday)------ SESSIONAL I

*4 - 6 April, 2018 (Wednesday - Friday) ----------------- SESSIONAL II

*27 April, 2018 (Friday) ------------------------------------ LAST DAY OF SESSION

*1 May to 8 May, 2018 (Tuesday-Tuesday)------------- PRACTICAL EXAMINATION

Start of End semester examinations (Even Semester)-----11 May, 2018 (Friday) to 10 June, 2018 (Sunday)