Lesson Plan

Name of the Faculty : **DR. RASHMI DAHRA (PROFESSOR)**

Discipline : **BCA**

Semester : **4TH**

Subject : **Object Oriented Programming (BCA-210 B) and**

SOFTWARE LAB.-VIII (BCA-230B)

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	Overview of procedural and object oriented approach	1st	Basic program in c++
	2nd	Characteristics of OOP, polymorphism ,encapsulation etc.	2nd	Basic program in c++
	3rd	User defined types		
	T1	Tutorial---review of lectures		
2nd	4th	Started with C++: syntax, data types, variables,	3rd	Basic program in c++
	5th	Strings in c++	4th	Program on strings
	6th	Assignment on above topics/ Test 1		
	T2	Tutorial---problem/review of lectures		
3rd	7th	Functions	5th	Program on functions
	8th	Operators, Recursion	6th	Program on recursion
	9th	Array and pointer		
	T3	Tutorial---problem/ review of lectures		
4th	10th	Structures with examples.	7th	Program on structure
	11th	Concept of inline functions and default arguments	8th	Program on inline function and default arguments
	12th	Assignment on above topics/ Test 2		

	T4	Tutorial---problem/review of lectures		
5th	13th	Memory allocation and static members	9th	Program using static members
	14th	Memory Management: new, delete, , assignment operator	10th	Program on memory management and using class
	15th	Classes, private and public		
	T5	Tutorial---problem/review of lectures		
6th	16th	Further discussion on classes and member functions	11th	Program using classes
	17th	Constructor and Destructor	12th	Program using constructor and destructor
	18th	Assignment on above topics/ Test 3		
7th	19th	Derived Class and Base Class concept	13th	Program on inheritance
	20th	Different types of Inheritance	14th	Program explain concept of abstract functions and overriding
	21st	Overriding member function, Abstract Class		
	T6	Tutorial---problem/review of lectures		
8th	22nd	Public and Private Inheritance	15th	Program on inheritance
	23rd	Ambiguity in Multiple inheritance	16th	Program on inheritance
	24th	Assignment on above topics/ Test 4		
	T7	Tutorial---problem/review of lectures		
9th	25th	Virtual functions	17th	Program on virtual function
	26th	Friend functions, Static functions	18th	Program on friend function and static function
	27th	Function overloading		
	T8	Tutorial---problem/review of lectures		
10th	28th	Constructors in inheritance	19th	Program on constructor in inheritance
	29th	Virtual base class	20th	Program on virtual base class
	30th	Assignment on above topics/ Test5		

	T9	Tutorial---problem/review of lectures		
11th	31st	Operator Overloading	21st	Program on operator overloading
	32nd	Operator Overloading	22nd	Program on operator overloading using friend function
	33rd	Type conversion		
	T10	Tutorial---problem/review of lectures		
12th	34th	Exception and derived class	23rd	Program on exception handling
	35th	Function exception declaration	24th	Program on exception handling
	36th	unexpected exception, exception when handling exception		
	T11	Tutorial---problem/review of lectures		
13th	37th	Template classes, declaration,	25th	Program on template class
	38th	Template Functions	26th	Program on template function
	39th	Assignment on above topics/ Test6		
	T12	Tutorial---problem/ review of lectures		
14th	40th	Text versus Binary Files	27th	Program on files
	41st	Opening and Closing Files	28th	Program on files using file pointer
	42nd	File Pointers		
15th	43rd	Problem session	29th	
	44th	Problem session	30th	
	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)

(DR. RASHMI DAHRA)

PROFESSOR