LESSON PLAN

Name of faculty   : Asha Kumari

Discipline   : Computer Engineering

Subject   : Object oriented Programming using Java (4TH Sem)

Lesson plan duration   : 15 weeks

Work load(lecture/practical) per week : Lectures-03,practicals-06

Week		Theory	Practical	
	Lecture Day	Topic (including assignment/test)	Practical day	Topic
1st	1st	Unit 1: Fundamentals of Object oriented programming – procedure-oriented programming vs. object oriented programming (OOP)	1st	Print Hello in Java
	2nd	Object oriented programming concepts – Classes, object,object reference, Abstraction		
	3rd	Encapsulation, inheritance, polymorphism	2nd	Simple Programs in Java.
2nd	4th	Introduction of eclipse (IDE) for developing programs in Java	3rd	Practical 1
	5th	Test of Unit 1		
	6th	Unit 2: Review of constructs of C used in JAVA: variables types and type declarations, datatypes	4th	Practice of practical
3rd	7th	Increment and decrement operators, Relational and logical operators	5th	Practical 2
	8th	if else then clause , Conditional expressions	6th	Practice of practical
	9th	input using scanner class and output statement		
4th	10th	Loops	7th	Practical 3
	11th	Switch case		
	12th	Arrays	8th	Practice of practical
5th	13th	Methods	9th	Practical 4
	14th	Test of Unit 2		
	15th	Unit 3: Creation of objects, accessing class members	10th	Practice of practical
6th	16th	Private Vs Public Vs Protected Vs Default	11th	Practical 5
	17th	Constructors		
	18th	Object & Object Reference	12th	Practice of practical

7th	19th	Test of Unit 3	13th	Practical 6
	20th	Unit 4: Definition of inheritance, Types		
	21st	Protected data, private data, public data	14th	Practice of practical
8th	22nd	constructor chaining, order of invocation	15th	Practical 7
	23rd	order of invocation	16th	Practice of practical
	24th	Single inheritance		
9th	25th	Multilevel inheritance	17th	Practical 8
	26th	Hierarchical inheritance		
	27th	Hybrid inheritance	18th	Practice of practical
10th	28th	Test of Unit 4	19th	Practical 9
	29th	Unit 5: Method & constructor overloading		
	30th	Method overriding	20th	Practice of practical
11th	31st	up-casting, down-casting	21st	Practical 10
	32nd	Test of Unit 5		
	33rd	Unit 6: Key points of abstract class	22nd	Practice of practical
12th	34th	Key points of Interface	23rd	Practice of practical
	35th	Implementation of multiple inheritance through interface		
	36th	Revision	24th	Practice of practical
13th	37th	Test of Unit 6	25th	Practice of practical
	38th	Unit 7: Definition of Exception handling		
	39th	implementation of keywords like try and catch, finally	26th	Practice of practical
14th	40th	implementation of keywords throw & throws	27th	Revision of practical.
	41st	importance of exception handling in practical implementation of live projects		
	42nd	Importance of exception handling in practical implementation of live projects	28th	Revision of practical.
15th	43rd	Test of Unit 7	29th	Internal Viva
	44th	Revision and problems		
	45th	Test of whole syllabus	30th	Internal Viva