

Lesson Plan

Name of the Faculty : Ms. Vinny Sukhija (ASSTT. PROFESSOR)
Discipline : MCA
Semester : 4TH
Subject (MCA 522) : JAVA Programming (MCA-504) /Practical Lab
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	1 st	Features of Java, OOPs concepts, Java virtual machine,		
	2 nd	Reflection byte codes, Byte code interpretation,		
	3 rd	Assignment on above topics/ Test 1		
	T1	Tutorial---review of lectures		
2nd	4 th	Java Program Structure,Compile and run java programs ,Java character set,	1 st	Simple Java Program
	5 th	Identifiers and keywords, Data types: declaration and definition	2 nd	Programs to Implement Type Conversion
	6 th	Expressions and Statements		
	T2	Tutorial---problem/review of lectures		
3rd	7 th	Operators	3 rd	Programs to Implement operators
	8 th	Operators	4 th	Programs to Implement control structure
	9 th	Control Structures		
	T3	Tutorial---problem/ review of lectures		
4th	10 th	looping structures	5 th	Programs to Implement looping Structure

	11 th	Introduction to arrays: Defining and processing an array, 1-Dim Arrays	6 th	Programs to Implement 1D and 2D Array.
	12 th	Array:2D		
	T4	Tutorial---problem/review of lectures		
5th	13 th	Array Functions, Passing arrays to functions	7 th	Programs to Implement Array Function
	14 th	String and string function	8 th	Programs to Implement String function Program to implement Object and classes
	15 th	Objects and classes: function overloading and constructor overloading		
	T5	Tutorial---problem/review of lectures		
6th	16 th	Inheritance:simple and multiLevel	9 th	Program to implement Inheritance
	17 th	Polymorphism: Run Time	10 th	Program to implement polymorphism
	18 th	Assignment on above topics/ Test 3		
7th	19 th	Abstract classes,		Program to implement abstract classes
	20 th	Static classes, Inner classes	11 th 12 th	Program to implement static classes and Wrapper classes
	21 st	Wrapper classes		
	T6	Tutorial---problem/review of lectures		
8th	22 nd	Interfaces	13 th	Program to implement interface
	23 rd	This, Super, Access control	14 th	Program to implement super and This
	24 th	Assignment on above topics/ Test 4		
	T7	Tutorial---problem/review of lectures		
9th	25 th	Packages	15 th	Program to implement packages
	26 th	Exception handling: Exception as objects, Exception hierarchy, Try catch finally, Throw	16 th	Program to implement Exception handling
	27 th	User defined Exception		
	T8	Tutorial---problem/review of lectures		
10th	28 th	IO package:Input streams, Output streams, Filter and pipe streams	17 th	Program to implement byte stream

	29 th	Object serialization, Deserialization	18 th	Program to implement character stream
	30 th	,Sample programs on IO files		
	T9	Tutorial---problem/review of lectures		
11th	31 st	Multi threading: Thread Life cycle, Multi threading advantages and issues,	19 th	Program to implement Multithreading
	32 nd	Simple thread program, Thread synchronization	20 th	Program to implement AWT
	33 rd	Introduction to AWT programming		
	T10	Tutorial---problem/review of lectures		
12th	34 th	Layout and component managers, Event handling	21 st	Program to implement Layout Manager
	35 th	Layout and component managers, Event handling	22 nd	Program to implement Layout Manager
	36 th	Layout and component managers, Event handling		
	T11	Tutorial---problem/review of lectures		
13th	37 th	Assignment/Test on above topics	23 rd	Assignment/Test on above topics
	38 th	Applet class: Applet life- cycle,	24 th	Program to implement Applet
	39 th	Passing parameters embedding in HTML		
	T12	Tutorial---problem/ review of lectures		
14th	40 th	Swing components – JApplet, JButton, JFrame, etc	25 th	Program to implement Swing
	41 st	Revision	26 th	Lab Assignments
	42 nd	Problems & Revision		
15th	43 rd	Problem session		Lab Assignments
	44 th	Problem session	27 th	Lab Assignments
	45 th	Problem session	28 th	

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)

(Ms Vinny Sukhija)

(Asst PROFESSOR)