Bhoj Reddy Engineering College for Women: Hyderabad
Department of Computer Science and Engineering
Lesson plan of faculty member for the academic year 2018–19

Class: III B Tech Branch-Section: ECE - A Semester: II
Subject: Java Programming Lectures per week: 3

Lecture Number	Topics to be covered	Date (s)
UNIT – I : OOP concepts, Java programming		
1	Procedural and object oriented programming paradigms	29 December 2018
2	OOPS principles, classes and objects	2 January 2018
3	History of Java, Comments, data types, variables	5 January 2018
4	Constants, scope and life time of variables, Operators	8 January 2018
5	Type conversion and casting, Enumerated types	9 January 2018
6	Block scope, conditional , loops, break and continue	12 January 2018
7	Arrays, Console input and output, Constructors, Methods	16 January 2018
8	Parameter passing, Static fields and methods, this	19 January 2018
9	Method Overloading, Recursion, Garbage Collection	22 January 2018
10	Strings	23 January 2018
11	Exploring String class	29 January 2018
UNIT-II: Inheritance, Polymorphism, Interfaces, Inner classes, Packages		
12	Inheritance hierarchies, Super And Sub Classes	30 January 2018
13	Member access rules, super, final classes and methods	2 February 2018
14	The Object Class And Its Methods, Dynamic binding	5 February 2018
15	Method overriding, abstract classes and methods	6 February 2018
16	Interfaces vs. Abstract classes, Inner classes, Packages	9 February 2018
UNIT-III: Exception handling, Multithreading		
17	Errors, Exception handling	12 February 2018
18	Usage of try, catch, throw, throws and finally	13 February 2018
19	Built in exceptions, creating own exception sub classes	16 February 2018
20	Multiple processes and multiple threads differences	23 February 2018
21	Thread states, creating threads, Interrupting threads	26 February 2018
22	Thread priorities, Inter-thread communication	27 February 2018
UNIT-IV: Collection Framework in Java , Files, Connecting to Database		
23	Introduction to Java Collections	2 March 2018
24	Overview of Java Collection frame work, Generics	5 March 2018
25	Collection classes– Array List, Vector	6 March 2018
26	Hash table, Stack, Enumeration, Iterator, String Tokenizer	9 March 2018
27	Random, Scanner, Calendar and Properties, File Streams	12 March 2018
28	Text Input/output, Binary input/output, File Operations	13 March 2018
29	File management using File class	16 March 2018
30	JDBC Type 1 to 4 drivers, Connecting to a database	19 March 2018
31	Querying a database and processing the results	20 March 2018
UNIT-V: GUI Programming with Java, Event handling, Applets		
32	The AWT class hierarchy, Introduction to Swing	23 March 2018
33	Swing vs. AWT, Hierarchy for Swing components	26 March 2018
34	Containers – JFrame, JApplet, JDialog, JPanel	27 March 2018
35	Swing components- Jbutton, JLabel, JTextField, JTextArea	30 March 2018
36	Simple swing applications	2 April 2018
37	Layout manager types – border, grid and flow	3 April 2018
38	Events, Event sources, Event classes, Event Listeners	9 April 2018
39	Delegation event model	10 April 2018
40	Button click and mouse events, Adapter classes	13 April 2018

41	Inheritance hierarchy for applets	16 April 2018
42	Differences between applets and applications, Applets	17 April 2018
43	Revision	20 April 2018

Text Books:

1. **Java Fundamentals – A comprehensive Introduction, Herbert Schildt and Dale Skrien, TMH.**

Reference Books:

1. **Java for Programmers, P.J.Deitel and H.M.Deitel, Pearson education (OR) Java: How to Program P.J.Deitel and H.M.Deitel, PHI.**
2. **Object Oriented Programming through Java, P.Radha Krishna, Universities Press.**
3. **Thinking in Java, Bruce Eckel, Pearson Education.**
4. **Programming in Java, S.Malhotra and S.Choudhary, Oxford Univ. Press.**

Name and signature of the faculty: **Mrs N Kiranmai**

Name and signature of Head of the Department**: Mr G Dayakar Reddy (HoD-CSE)**