

LESSON PLAN: Prepared by: Prof. Chethana R Murthy, Dept of ISE, RVCE
JAVA & J2EE (Global Elective)

WEEK NO.	UNIT NO.	TOPIC	SUB-TOPIC	REMARKS
1	1	INTRODUCTION TO JAVA	Java Language introduction, Java features, why Java is important to internet, Java Language Introduction- Hello World, Lexical Issues, Java class Libraries	
			Simple Java programs	
			Variables, Data Types- Simple Types, Type conversion, Arrays. Operators, Flow Control-Branching, Looping,	
			Sample programs to illustrate variables, Data Types, Type conversion, Arrays, Operators, Branching, Looping	
2	1	INTRODUCTION TO JAVA	Classes-Object References, Instance Variables, The new operator, The Dot(.) Operator, Method Declaration, Method Calling, Constructors,	
			Sample programs to illustrate class – object, reference, new, constructors, methods	
			Method Overloading, Inheritance, Method Overriding, Dynamic Method Dispatch, Abstract, Packages and Interfaces- Packages, Interfaces	
			Sample programs to illustrate method overloading, overriding, inheritance, abstract, interfaces	
3	2	JAVA CLASSES	String handling- Constructors, String syntax, Character Extraction, Comparison, String Copy Modifications,	
			Sample programs to illustrate Constructors, String syntax, Character Extraction, Comparison, String Copy Modifications,	
			Exception Handling-Exception Types, Uncaught Exceptions, Try and catch, Multiple catch Clauses, Nested try Statements, Exception sub Classes	
			Sample programs to illustrate Try and catch, Multiple catch Clauses, Nested try Statements	
4	2	JAVA CLASSES	Threads and Synchronization- Single Threaded Event Loop, The Java Thread Model, Thread class, Runnable Interface, Thread Priorities	
			Sample programs to illustrate Thread class, Runnable Interface, Thread Priorities	
			Synchronization, Inter-Thread Communication, Thread API Summary	
			Sample programs to illustrate Synchronization, Inter-Thread Communication	
5	2	JAVA CLASSES	Utilities- Enumerations, Simple type Wrappers, runtime	
			Sample programs to illustrate Enumerations, Simple type Wrappers, runtime	
			Input/ Output- File, Input Stream, Output Stream, File Streams	
			Sample programs to illustrate File, Input Stream, Output Stream, File Streams	
6	3	INTRODUCTION TO JAVA GUI	Applets: Applet Basics, Architecture, Applet Lifecycle, repaint (), update, HTML APPLET Tags	
			Sample programs to illustrate Applet Lifecycle, repaint(), update, HTML APPLET Tags	
			Passing parameters to Applets. AWT: AWT classes, Window fundamentals.	
			Sample programs for Passing parameters to Applets	

7	3	INTRODUCTION TO JAVA GUI	Swings: Introduction to Swings, JApplet, JFrame and JComponent	
			Sample programs to illustrate Swings	
			Icons & labels, Handling Threading issues, Text Fields, Buttons.	
			Sample programs to illustrate Icons & labels, Handling Threading issues, Text Fields, Buttons.	
8	4	J2EE AND JDBC CONCEPTS	Overview of J2EE and J2SE, J2EE best Practices	
			Enterprise Application strategy, Enterprise Application clients, session Management	
			Web Tier & JSP, EJB Tier	
9	4	J2EE AND JDBC CONCEPTS	The Concept of JDBC; JDBC Driver Types; JDBC Packages	
			A Brief Overview of the JDBC process	
			Database Connection; Associating the JDBC/ODBC Bridge with the Database	
			JDBC/ODBC – db connectivity demonstration	
10	4	J2EE AND JDBC CONCEPTS	Statement Objects; Result Set	
			Sample programs to illustrate Statement Objects; Result Set	
			Transaction Processing; Metadata, Data types; Exceptions.	
			Sample programs to illustrate Transaction Processing; Metadata, Data types; Exceptions.	
11	5	SERVLETS AND JSP	Background, The Life Cycle of a Servlet; Servlet configuration, Reading/Sending data	
			Sample programs to illustrate Servlets	
			Working with Cookies – Cookie class and its methods	
			Sample programs to illustrate Cookie class and its methods	
12	5	SERVLETS AND JSP	Session Tracking- methods used in session tracking.	
			Sample programs to illustrate methods used in session tracking	
			Java Server Pages (JSP) installation, JSP Tags, Tomcat-starting and stopping server	
			Sample programs to illustrate JSP	
13	5	SERVLETS AND JSP	Request String, User Sessions	
			Sample programs to illustrate Request String, User Sessions	
			Cookies, Session Objects	
			Sample programs to illustrate Cookies, Session Objects	