Branch: BCA	Semester-V
Subject Code: 5201	**Practical: 02** **Credit: 02**
Subject Title	**JAVA PROGRAMMING LAB***

Modules	Sr. No.	Topic and Details	No of Lectures/Practicals Assigned	Marks Weight age %
UNIT-I	1	**Introduction and programming with Java:** Implementation of Data Types, Type conversion & Casting, Java Automatic Conversions, Casting Incompatible Types, Arrays: One , Multi dimensional, Operators- Arithmetic ,Modulus, Assignment, Increment & Decrement, Relational, Boolean - Logical operators. Control Statement-All Control Statements, Jump Statement Classes & Objects: Simple class, Declaring Objects, Assigning Object reference Variables	2	4
	2	Implementations of Constructor & Methods: Constructors, This Keyword, Garbage Collection, Finalize( ) method, A Stack Class	2	4
UNIT-II	3	Implementations of Method Overloading : Overloading Recursion, Static , Inheritance & Method Overriding: Basics, Using Super, Multilevel, Overriding, Dynamic Method dispatch, Abstract Classes	3	6
	4	**Special Features of Java:** Implementations of Interface & Packages, Packages Access Protection, Importing Package, Interfaces.	3	6
UNIT-III	5	Exception Handling: Implementations of try catch, Multiple Catch, Nested try, throw, throws, finally statements Java's Built-in-Exception	3	6
	6	Implementations of Threading: Single and le thre	3	6
	7	**I/O, Applets :** Implementations of I/O functions		
UNIT-IV	8	Applet: Implementations Applet - Initialization and Termination, Init(), Start(), Paint(), Stop(), Destroy(), Overriding update(), Simple Applet Display Methods(), Repainting, Using Status window, The HTML Applet tag, Passing parameters to Applets	3	6
	9	**The Java Library:** Implementations String Handling functions	3	6

	10	Implementations of AWT and Layout Managers: Control fundamentals, Adding and Removing controls, Responding to controls, Using Buttons, Listeners	3	6
		Total	25	50

Text Book:

Herb Schildt "Java 2 the Complete Reference J2se", 5TH Edition , 2003

References:

Jim Farley, William Crawford, David Flanagan "Java Enterprise in a Nutshell: A Desktop Quick Reference": (Nutshell Handbook), O'Reilly, 2002

Elliot B. Koffman, "Problem Solving with Java", Temple University Ursula Wolz, College of New Jersey, Copyright 1999, 848 pp. ISBN 0201357437.

Jan Skansholm, "Java from the Beginning", Chalmers University of Technology, Sweden, Copyright 2000, 540 pp. ISBN 0201398125.