University of Pune

M C A (Commerce): Advanced Java(401)

Course Objective: This course enables students to understand programming concept and its use in Software development.

Ch .No	Topic	No. Of Lect	Reference Book
1	**1. JDBC** 1.1 The design of JDBC 1.2 Basic JDBS program Concept 1.3 Drivers 1.4 Making the Connection, Statement , ResultSet 1.5 Executing SQL commands 1.6 Executing queries 1.7 MetaData	8	1,2
2	**2. MultiThreading** 2.1 Threading basics 2.2 Life cycle of thread 2.3 Creating Threads 2.4 Priorities and Synchronization 2.5 Inter Thread Communication 2.6 Runnable Interfac		1,2
3	**3. Servlet** 31 Introduction 3.2 Life cycle of servlet 3.3 Types of servlet 3.4 Session Tracking 3.5 Cookie class 3.6 Servlet- Jdbc	6	1,2
4	**4.Introduction to JSP** 4.1 Getting Familiar with JSP Server 4.2 First JSP 4.3 Adding Dynamic contents via expressions 4.4 Scriptlets, Mixing Scriptlets and HTML 4.5 Directives, Declaration, Tags and Session	5	1,2
5	**5. Remote Method Invocation** 5.1 Introduction to remote object	5	1,2

	5.2 RMI architecture 5.3 Stubs and skeleton 5.4 Registry 5.5 Setting up RMI 5.6 Using RMI with applet		
6	**6.Networking** 6.1 The java.net package 6.2 Connection oriented transmission – Stream Socket Class 6.3 Creating a Socket to a remote host on a port (creating TCP client and server) 6.4 Simple Socket Program Example	5	1,2
7	**7.JavaBeans Components** 7.1 Why beans? 7.2 The bean-writing process 7.3 Using beans to build an application 7.4 jar file	4	1,2

Reference Book:

1. **Complete Reference – Herbelt Shieldt**

2. **Programming in java - Black Book Series**