GUJARAT UNIVERSITY

K. S. SCHOOL OF BUSINESS MANAGEMENT

[Five Years' (Full-time) Integrated Degree Course]

Semester-6 [M.Sc. (CA & IT)]

Subject Code: - KS_C_EC-361
Subject Name: - Advance Java
Course Credit: - 3
<u>Objective:</u>

The subject and the course content will help the student to Understand the concepts of threading and thread-safe programming in Java, Write client-side Java applications using Swing, Work with XML in Java, Work with Java Web Services

Unit No.	Course Content	Weight-age (%)
1	**Advanced Java Swing Programming: -** Introduction of Swing, AWT vs. Swing, features of Swing, Look and Feel for Swing Components **Swing Components :-** JFrame, JApplet, JPanel, JCheckBox, JRadioButton, JToggleButton, JTree, JMenu, JFileChooser, JColorChooser, Layout Managers (BoxLayout, SpringLayout), JList, JScrollPane, JSplitPane, JTabbedPane, Dialog Box **2D Graphics :-** 2DGraphics Class (Line Style, Fill Pattern)	**(20%)**
2	**JavaBeans: -** The Software Component Assembly Model, Using Customize Class, Create setter and getter Methods. Create Simple Application Using JavaBean **Database Programming: -** ODBC and JDBC Drivers, Connecting to Database with the java.sql Package, Using JDBC	**(20%)**
3	**Servlets :-** Introduction to Servlets, Servlet Life Cycle, Servlet based Applications, Servlet and HTML **JSP :-** Introduction to JSP, JSP implicit objects, JSP based Applications	**(20%)**

4	**XML: -** Introduction to XML, XML Building Block, Displaying XML, XML Parser, Introduction to DTD **RMI: -** The RMI Architecture, RMI exceptions, Developing Applications with RMI	**(20%)**
5	**J2EE:-** The J2EE Platform, The J2EE connector Architecture, J2EE Packaging and Deployment, WAR file **Other Java Technologies :-** Introduction to Struct, MVC, struct based application, Java Message Service (JMS), Java in small memory space (PDA), Overview of Distributed Computing (CORBA, DCOM)	**(20%)**

Recommended Lecture Scheme: Approximately 40 to 45 hours in a semester

Recommended Practical Scheme: Not Applicable

Assignment: Five assignments should be given.

Main Reference Books:

1. Professional Java Server Programming (a Press)
   By Allamaraju
2. Developing Java Servlets (Techmedia – SAMS)
   By James Goodwill

Reference Books:

1. Using Java 1.2 Special Edition (PHI)
   By Webber
2. Java 2 Unleashed (Techmedia – SAMS)
   By Jamie Jaworski