SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc – Information Technology (Integrated)
Semester: VII
Syllabus with Effect from: June-2015

Paper Code: PS07CIIT03	Total Credit: 4
Title Of Paper: Advance Java Programming	

Unit	Description in Detail	Weightage (%)
I	**JDBC and Java Swing** **JDBC** Introduction to JDBC JDBC Architecture Database connectivity using JDBC JDBC APIs for Database Connectivity (java.sql package) **Layout Manager** **Swing** What is Swing? Container Class Working with JApplet, JLabel, JButton, JCheckBox, JCheckboxgroup, JChoice, JRadioButton, JTextField, JTextArea, JList, JScrollbar, JPanel, JFrame, JMenu, JMenuBar, JMenuItem, JPasswordField.	25%
II	**Servlet Programming** Introduction to Servlet Servlet Architecture Servlet API Servlet Life Cycle Developing and Deploying Servlets Servlet Requests and Responses Handling Session Tracking Approaches (URL Rewriting, Hidden Form Fields, Cookies, Session API) Servlet Collaboration	25%
III	**JSP Programming** Introduction to JSP and JSP Basics JSP vs. Servlet JSP Architecture Life cycle of JSP JSP Elements JSP Implicit Objects Scope of JSP variables Including and Forwarding from JSP Pages (include action and forward action) Working with Session & Cookie in JSP Error Handling and Exception Handling with JSP	25%
IV	**The J2EE Platform** Introduction to J2EE Enterprise Architecture The J2EE Platform Introduction to J2EE APIs (Servlet, JSP, EJB, JMS, JavaMail, JSF, JNDI)	25%

	Introduction to Containers Tomcat as a Web Container J2EE 1.4 as an Application Server	

Basic Text & Reference Books:-

- ➤ Herbert Schildt and Patrick Naughton : The Complete Reference Java 2, 5th Edition,2002
- ➤ Advance Java Programming, Bharat & Co. (ISBN No. 978-93-81786-91-8)
- ➤ Ivan Bayross, Sharanam Shah : Java Server Programming For Professionals, Shroff publication, 2nd Edition,2008
- ➤ James Keogh : Complete Reference J2EE, McGraw Hill Publication,2002
- ➤ Cedric Buest : Professional Java Server Programming J2EE, Apress Publication, 1.3 Edition,2001
- ➤ Jason Hunter and William Crawford : JAVA Servlet Programming, Oreillly, 2nd Edition,2001
- ➤ Kevin Mukhar and Chris Zelenak : Beginning Java J2EE 5,2006