Programming in Java - II

Semester VI	Subject Code: BS61705	Lectures: 60	
Objectives:			
Problem solvAbility to builife problemsNecessary kn	equipping students with, ing abilities using computers ld the necessary skill set and developi owledge base for JDBC programming er Interface using Swing and AWT		real
Unit 1: Database Pr	rogramming		12
JDBC DriverConnectivityJDBC statemJDBC ResultJDBC Metada	with PostgreSQL: basic steps ent: Statement, PreparedStatement, Ca		
Unit 2: Multithread	ling		09
Thread prioriRunning mulDaemon threa	thread using threads using Thread class and I ties tiple threads, ThreadGroup class ad ion and inter-thread communication(r		

- Unit 3: Servlets
 - Introduction to Servlet and Servlet types
 - Lifecycle of servlet
 - Handing HTTPRequest and HTTPResponse
 - HttpServlet:
 - > Reading form data from servlet



- > Servlet Database communication
- Session tracking –User Authorization, URL Rewriting, Hidden Form fields, Cookies and HttpSession.
- Simple first JSP program
- Life cycle of JSP
- Implicit Objects
- Scripting elements Declarations, Expressions, Scriplets, Comments
- JSP Directives Page Directive, include directive
- Mixing Scriplets and HTML
- Example of forwarding contents from database to servlet, servlet to JSP and displaying it using JSP scriplet tag

Unit 4: Java Server Pages (JSP)

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- Introduction to JSP
- Life cycle of JSP
- Implicit Objects
- Scripting elements Declarations, Expressions, Scriplets, Comments
- JSP Directives Page Directive, include directive
- Mixing Scriplets and HTML

Unit 5: Networking

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- Networking basics –Protocol, Addressing, DNS, URL, Socket, Port
- The java.net package-InetAddress, URL, URLConnection class, SocketServer and Socket class
- Creating a Socket to a remote host on a port (creating TCP client and server)
- Simple Socket Program Example

*Contact hours - 12 hours

Reference Books:

- 1. Herbert Schildt, Complete reference Java (5th edition).
- 2. Steven Horlzner, Java 2 Programming Black Book.
- 3. E balgurusamy, *Programming with java*, a Primer. 4th edition.
- 4. Cay S Horstmann, Gary Cornell, *Core Java Volume I- Fundamentals*, 8th edition, , Prentice Hall, Sun MicroSystem Press .
- 5. Cay S Horstmann, Gary Cornell, *Core Java Volume II- Advance Features*, 8th edition, , Prentice Hall. Sun MicroSystem Press.

