IT6503 WEB PROGRAMMING

DETAILED SYLLABUS

OBJECTIVES:

The student should be made to:

- Understand the technologies used in Web Programming.
- Know the importance of object-oriented aspects of Scripting.
- Understand creating database connectivity using JDBC.
- Learn the concepts of web-based application using sockets.

UNIT I SCRIPTING.

Web page Designing using HTML, Scripting basics- Client side and server-side scripting. Java Script Object, names, literals, operators and expressions- statements and features- events - windows - documents - frames - data types - built-in functions- Browser object model - Verifying forms-HTML5- CSS3- HTML 5 canvas - Web site creation using tools.

UNIT II JAVA 9

Introduction to object-oriented programming-Features of Java – Data types, variables and arrays – Operators – Control statements – Classes and Methods – Inheritance. Packages and Interfaces – Exception Handling – Multithreaded Programming – Input / Output – Files – Utility Classes – String Handling.

UNIT III JDBC

JDBC Overview – JDBC implementation – Connection class – Statements - Catching Database Results, handling database Queries. Networking– Inet Address class – URL class-TCP sockets – UDP sockets, Java Beans –RMI.

UNIT IV APPLETS

Java applets- Life cycle of an applet – Adding images to an applet – Adding sound to an applet. Passing parameters to an applet. Event Handling. Introducing AWT: Working with Windows Graphics and Text. Using AWT Controls, Layout Managers and Menus. Servlet – life cycle of a servlet. The Servlet API, Handling HTTP Request and Response, using Cookies, Session Tracking. Introduction to JSP.

UNIT V XML AND WEB SERVICES

Xml – Introduction-Form Navigation-XML Documents- XSL – XSLT- Web services-UDDI-WSDL-Java web services – Web resources.

TEXT BOOKS:

1. Harvey Deitel, Abbey Deitel, Internet and World Wide Web: How to Program 5th Edition.

2. Herbert Schildt, Java - The Complete Reference, 7th Edition. Tata McGraw- Hill Edition.

3. Michael Morrison XML Unleashed Tech media SAMS.

REFERENCES:

1. John Pollock, Javascript - A Beginners Guide, 3rd Edition –- Tata McGraw-Hill Edition.

2. Keyur Shah, Gateway to Java Programmer Sun Certification, Tata McGraw Hill, 2002.