

Web Technology (KCS-602)		
Course Outcome (CO)		Bloom's Knowledge Level (KL)
At the end of course , the student will be able to		
CO 1	Explain web development Strategies and Protocols governing Web.	K ₁ , K ₂
CO 2	Develop Java programs for window/web-based applications.	K ₂ , K ₃
CO 3	Design web pages using HTML, XML, CSS and JavaScript.	K ₂ , K ₃
CO 4	Creation of client-server environment using socket programming	K ₁ , K ₂ ,
CO 5	Building enterprise level applications and manipulate web databases using JDBC	K ₃ , K ₄
CO6	Design interactive web applications using Servlets and JSP	K ₂ , K ₃
DETAILED SYLLABUS		3-0-0
Unit	Topic	Proposed Lecture
I	Introduction: Introduction and Web Development Strategies, History of Web and Internet, Protocols Governing Web, Writing Web Projects, Connecting to Internet, Introduction to Internet services and tools, Introduction to client-server computing. Core Java: Introduction, Operator, Data type, Variable, Arrays, Methods & Classes, Inheritance, Package and Interface, Exception Handling, Multithread programming, I/O, Java Applet, String handling, Event handling, Introduction to AWT, AWT controls, Layout managers	08
II	Web Page Designing: HTML: List, Table, Images, Frames, forms, CSS, Document type definition, XML: DTD, XML schemes, Object Models, presenting and using XML, Using XML Processors: DOM and SAX, Dynamic HTML	08
III	Scripting: Java script: Introduction, documents, forms, statements, functions, objects; introduction to AJAX, Networking : Internet Addressing, InetAddress, Factory Methods, Instance Methods, TCP/IP Client Sockets, URL, URL Connection, TCP/IP Server Sockets, Datagram.	08
IV	Enterprise Java Bean: Preparing a Class to be a JavaBeans, Creating a JavaBeans, JavaBeans Properties, Types of beans, Stateful Session bean, Stateless Session bean, Entity bean Java Database Connectivity (JDBC): Merging Data from Multiple Tables: Joining, Manipulating, Databases with JDBC, Prepared Statements, Transaction Processing, Stored Procedures.	08
V	Servlets: Servlet Overview and Architecture, Interface Servlet and the Servlet Life Cycle, Handling HTTP get Requests, Handling HTTP post Requests, Redirecting Requests to Other Resources, Session Tracking, Cookies, Session Tracking with Http Session Java Server Pages (JSP): Introduction, Java Server Pages Overview, A First Java Server Page Example, Implicit Objects, Scripting, Standard Actions, Directives, Custom Tag Libraries..	08
Text books: <ol style="list-style-type: none"> 1. Burdman, Jessica, "Collaborative Web Development" Addison Wesley 2. Xavier, C, " Web Technology and Design" , New Age International 3. Ivan Bayross," HTML, DHTML, Java Script, Perl & CGI", BPB Publication 4. Bhave, "Programming with Java", Pearson Education 5. Herbert Schildt, "The Complete Reference:Java", McGraw Hill. 6. Hans Bergsten, "Java Server Pages", SPD O'Reilly 7. Margaret Levine Young, "The Complete Reference Internet", McGraw Hill. 8. Naughton, Schildt, "The Complete Reference JAVA2", McGraw Hill. 9. Balagurusamy E, "Programming in JAVA", McGraw Hill. 		