

Web Technology

BCA(N)-301

Block-I

UNIT-I

MARKUP LANGUAGES, Introduction to Hyperlinks, Web Standards, The History of Markup Languages, HTML, XML, XHTML, WML-Wireless Markup Language, Cascading Style Sheets (CSS) DHTML, Client-Side and Server-Side Technologies, Basics of HTML, HTML Document Structure

UNIT-II

HTML

Learning Objectives, Introduction to Hyperlinks, Hyperlinks, Hyperlinks - Examples Links to the same document, Frames and Framesets, Frame attributes, Nested framesets

UNIT- III

HTML Tables, Tables Attributes, Rows and Columns, Introduction to Forms, The <FORM> tag The <INPUT> tag, Text input

UNIT-IV

CASCADING STYLE SHEETS (CSS), Inline Style sheet, Internal Style Sheet, External Style sheet, Imported Style Sheet, Cascading Rules, Order rules, Order rules, Difference between ID and Classes Anatomy of a style rule, Style Classes, Attribute Selector

Block-II

UNIT-V

eXtensible Markup Language (XML), Learning Objectives, HTML – eXtensible Hyper Text Markup Language, Need for XHTML, XHTML – Base syntactic rules, XHTML – other syntactic rules DTD – Document Type Definition, XML, XML Trees, Namespaces, Defining XML Data Formats

UNIT-VI

JAVASCRIPT AND HTML DOM, Learning Objectives, Document Object Model or DOM JavaScript - Document Object Model or DOM, Types of DOM nodes, Traversing the DOM tree Working with DOM

UNIT-VII

JAVASCRIPT AND EVENT HANDLING, Learning Objectives, JavaScript - Event Handlers, onClick event type, onSubmit event type, onMouseOver and onMouseOut event, javascript cookies, create cookies Store Cookies

UNIT-VIII

JAVA SERVER PAGES(JSP), Introduction to JSP, Comparison of Servlets with JSP, Advantages of JSP JSP engines, JSP Architecture, Life cycle of a JSP Page, Directory structure of JSP Anatomy of a JSP page, JSP Components and Tags, Creation of a small Web application using JSP

Block-III

UNIT-IX

JAVA SERVER PAGES(JSP) II, JSP Elements – JSP Actions, JSP Implicit Objects
JSP - Exception Handling, JSP Session Tracking

UNIT-X

JAVA SERVER PAGES (JSP) WITH JDBC, JDBC, Basic steps to connect database
Install Mysql, Steps to run JSP using Tomcat server, Creating a table using JSP example
Creating a table: database, SELECT operation, INSERT operation, DELETE Operation

UNIT-XI

JDBC – INTRODUCTION, JDBC, JDBC Architecture, JDBC Drivers
Working with JDBC, JDBC Object Classes

UNIT-XII

JAVA SERVLET IMPLEMENTATION, Tomcat Installation, Servlet Implementation
The doGet method, The doPost method