

B. Sc. (IT) Part I Semester-I
Paper IV
Web Technologies

UNIT I

Introduction to Internet, Requirement for connecting to internet, Basic internet term, Introduction to World Wide Web (WWW), Evaluation of world wide web, basic features of www, web browsers, web server. Internet Security: Secure Transaction, Privacy issues, computer crimes and its type. Security Issues: Security threats like damage to data, loss of data and unauthorized use of data. Security Procedure: Firewall, Encryption, Password, Access Control List, Digital Certificate.

UNIT – II

Introduction to HTML, Features of HTML , Advantage and Disadvantage of HTML, Basic structure of HTML documents. Creating web pages with HTML Tags : <HTML>, <HEAD>, <TITLE>, <BODY>, Heading tags, Paragraph tags, Alignment, Font tag and its attributes, line break, Pre-formatted text tag, list element (Unordered lists, ordered list, Definition list, Marquee tags and its attribute. Character formatting tags: Logical verses physical style, logical and physical tags. Changing the colors of the fonts. Linking :Relative pathnames verses absolute pathnames, URLs, Linking within a web page, linking to a different web page, linking to external web page, linking to an image by image, linking to document located in different directory, types of URLs .

UNIT – III

Images: IMG element and its attributes, Images as a Hyperlink, Image map, Image Formats, Frames. Tables: TABLE element and its attributes, Creating simple tables, Row element, Data element, Spanning rows and columns. Form designs: Form Controls, Text controls, password fields, radio buttons, checkboxes, reset and submit buttons, select element, option , Image and textarea. Embedding Multimedia: Introduction, Embedding Multimedia, Inserting sound/audio formats, video file formats. DHTML: using DHTML in internet explorer, heading and horizontal line, hidden message, the message at the center of the page, moving boxes , changeable box.

UNIT – IV

Cascading Style Sheets (CSS): advantage of CSS, Disadvantage of CSS, Defining a Style, Inline style sheet, Embedded Style sheet, External style sheets. Style sheet Properties: Font, color, background, creating group, text, Box properties, span tag.

Scripting Language: JAVA SCRIPT – Introduction, Advantages, Disadvantages, Working of JavaScript, Structure of JavaScript program, Variable, Data types, Operators & Expression, Decision Making- if—else, switch, loops(for, for...in, while, do...while), break & continue, , Arrays