

CAP214:FUNDAMENTALS OF WEB PROGRAMMING

L:3 T:0 P:0 Credits:3

Course Outcomes: Through this course students should be able to

CO1 :: understand the basic concepts of HTML.

CO2 :: understand the website layout creation using CSS.

CO3 :: apply JavaScript to design dynamic webpages.

CO4 :: develop webpages by using jQuery and DOM

CO5 :: NULL

Unit I

Web Page Layout Using HTML : Working with image in web page (Background image, image map and image), Lists and Tables in a webpage, inserting images, text and image links, fonts in web page

Basics of HTML : introduction to html, world wide web, world wide web consortium, structure of html document (head, body, title) elements, tags and their attributes

Unit II

Advanced concepts in HTML : frames, forms, traditional html vs xhtml, presentational markups removed and redefined, html 5 document structure, html 5 open media effort, html 5 document structure thead tfoot tbody, html 5 open media effort like audio video figure

Unit III

CSS : introduction to style sheet, external, inline, embedded css, use of id and classes, use of div and span

Unit IV

Javascript : introduction to javascript, concept of script, types of script, variables, identifiers, constants in javascript, operators in javascripts, control and looping structure, concepts of array, methods of array

Unit V

Advanced concepts in Javascript : event handling in javascript, maths and date object, string object, objects and constructors, user defined functions, validations in javascript

Unit VI

Basics of JQuery : Introduction to JQuery, JQuery events, Animations and effects using JQuery

DOM using Javascript : dom concept in javascript, windows navigator, locations object with methods

Text Books:

1. HTML: THE COMPLETE REFERENCE by THOMAS A. POWELL, OSBORNE, MCGRAW HILL EDUCATION

References:

1. WEB ENABLE COMMERCIAL APPLICATION DEVELOPMENT USING HTML, DHTML, JAVASCRIPT, PERL, CGI, BPB PUBLICATIONS, 2000. by IVAN BAYROSS, BPB PUBLICATIONS