

Paper Code: BCA-204

Paper ID: 20204

Paper: Web Technologies

Pre-requisite : Basic Programming Concepts

Aim : To highlight the features of different technologies involved in Web Development

Objectives

- Students should be able to design and implement a basic website.
- Students should be able to implement different navigation strategies.
- Students should be able to use client-side technologies (XHTML, CSS, forms, JavaScript).
- Students should be able to develop simple back-end database to support a website.
- Students should be able to recognize and evaluate website organizational structure and design elements.

INSTRUCTIONS TO PAPER SETTERS:

Maximum Marks : 75

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks

UNIT – I

History of the Internet and World Wide Web, Search Engines, News-group, E-mail and its Protocols, Web Portal, Browsers and their versions, Its functions, URLs, web sites, Domain names, Portals.

Static Web Development: HTML - Introduction to HTML, HTML Document structure tags, HTML comments, Text formatting, inserting special characters, anchor tag, adding images and Sound, lists types of lists, tables, frames and floating frames, Developing Forms, Image maps.

[No. of Hrs: 11]

UNIT – II

Introduction to Java Script: Data Types, Control Statements, operators, Built in and User Defined Functions, Objects in Java Script, Handling Events.

Cascading Style Sheet: Types of Style Sheets – Internal, inline and External style sheets, creating styles, link tag.

[No. of Hrs: 11]

UNIT – III

DHTML : Introduction to DHTML, JavaScript & DHTML, Document Object Model, Filters and Transitions, DHTML Events, Dynamically change style to HTML Documents.

[No. of Hrs: 11]

UNIT – IV

Introduction to WYSIWYG Design tools, Introduction to Dreamweaver, Website Creation and maintenance, Web Hosting and Publishing Concepts, XML: Introduction to XML-Mark up languages, Features of Mark up languages, XML Naming rules, Building block of XML Document, Difference between HTML & XML

Components of XML, XML Parser, DTD's Using XML with HTML and CSS

[No. of Hrs: 11]

Note : A Minimum of 40 Lectures is mandatory for each course.

Syllabus of Bachelor of Computer Applications (BCA), approved by BCA Coordination Committee on 26th July 2011 & Sub-Committee Academic Council held 28th July 2011. W.e.f. academic session 2011-12

TEXT BOOKS

- [T1] The complete reference HTML, by Thomas A powell, TMH publication.
- [T2] Mastering HTML 4.0 by Deborah S. Ray and Erich J. Ray. BPB Publication.
- [T3] Internet and World Wide Web Deitel HM, Deitel ,Goldberg , Third Edition

REFERNCES

- [R1] HTML Black Book , Stephen Holzner, Wiley Dreamtech.
- [R2]Rajkamal, “Web Technology”, Tata McGraw-Hill, 2001.
- [R3] Jeffrey C. Jackson, “Web Technologies : A Computer Science Perspective”, Pearson.
- [R4]XML How to Program by Deitel Deitel Nieto.