



Web Technology – CACS205

BCA 3rd Semester







Course Objectives







Web Technology
Chapter – 1 : HTML and CSS


- Provide fundamental concept of Internet
- Different aspects of web technology
 - HTML
 - CSS
 - Issues of web technology
 - Client tier
 - Server tier
 - Advance server side issues

	<h1>Course Content</h1>	
Web Technology Chapter – 1 : HTML and CSS	<p>✓ Unit 1 HTML and CSS (15 Hrs.)</p> <ul style="list-style-type: none"> • HTML Basic: HTML Tag Reference, Global Attributes, Document, Structure Tags, Formatting Tags, Text Level Formatting, Block Level Formatting, List Tags, Hyperlink Tags, Executable Content Tags. • Image & Imagemaps: Introduction, Client-Side Imagemaps, Server-Side Imagemaps, Using Server-Side and Client-Side Imagemaps Together, Alternative Text for Imagemaps. • Tables: Introduction To HTML Tables and Their Structure, The Table Tags, Alignment. Aligning Entire Table, Alignment within a Row, Alignment within a Cell, Attributes, Content Summary, Background Color. Adding a Caption, Setting the Width, Adding a Border, Spacing Within a Cell, Spacing between the Cells, Spanning Multiple Rows or Columns, Elements that can be Placed in a Table, Table Sections and Column Properties, Tables as a Design Tool. 	
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	<h1>Course Content</h1>	
Web Technology Chapter – 1 : HTML and CSS	<p>✓ Unit 1 HTML and CSS (15 Hrs.) ...</p> <ul style="list-style-type: none"> • Frames: Introduction to Frames, Applications, Frames document, The <FRAMESET> tag, Nesting <FRAMESET> tag, Placing content in frames with the <FRAME>Tag, Targeting named Frames, Creating Floating Frames, Using Hidden Frames. • Forms: Creating Forms, The <FORM> tag, Named Input fields, The <INPUT> tag, Multiple lines text windows, Drop Down and List Boxes, Hidden, Text, Text Area, Password, File Upload, Button, Submit, Reset, Radio, Checkbox, Select. Option, Forms and Scripting, Action Buttons, Labeling input files, Grouping related fields, Disabled and read-only fields, Form field event handlers, Passing form data. • Style Sheets: Definition, Importance, Different Approaches to Style Sheets, Using Multiple Approaches, Linking to Style Information in Separate File. Setting up Style Information, Using the <LINK>Tag, [Embedded Style Information, Using <STYLE>Tag, Inline Style Information. 	
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 Web Technology Chapter – 1 : HTML and CSS	<h1>Course Content</h1>	
	<p>✓ Unit 2 Issue of Web Technology (3 Hrs.) : Architectural Issues of Web Layer, Tier Technology: 2-Tier, 3-Tier and n-Tier.</p> <p>✓ Unit 3 The Client Tier (10 Hrs.) : Representing Content; Introduction to XML; Elements and Attributes; Rules for Writing XML; Namespaces; Schema: Simple Types and Complex Types, XSD Attributes, Default and Fixed Values, Facets. Use of Patterns, Order Indicators(All, Choice. Sequences), Occurrence Indicators (Maxoccurs, Minoccurs), DTD: Internal Declaration, Private External Declaration, Public External Declaration, Defining Elements and Attributes: XSL/XSLT: Xpath; Xquery: SAX: DOM . Creating XML Parser.</p>	
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 Web Technology Chapter – 1 : HTML and CSS	<h1>Course Content</h1>	
	<p>✓ Unit 4 The Server Tier (8 Hrs.) : Web Server Concept, Creating Dynamic Content. Using Control Flow to Control Dynamic Content Generation, Sessions and State, Error Handling. Architecting Web Application, Using Tag Libraries, Writing Tag Libraries.</p> <p>✓ Unit 5 Introduction to Advanced Server Side Issues (9 Hrs.): Database Connectivity; Creating an SQL statement: Select, Insert, Update, and Delete; Authentication: Anonymous Access, Authentication by IP address and Domain, Integrated Windows Authentication; Cookies; File Handling; Form Handling</p>	
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Learning Materials



Web Technology
Chapter – 1 : HTML and CSS


✓Text Books

- Harvey M. Deitel, Paul J. Deitel & Abbey Deitel, “Internet and World Wide Web: How to Program”. 5th Edition, Pearson Education, 2012, ISBN: 9780273764021
- Thomas A. Powell, “HTML & CSS: The Complete Reference”, McGraw Hill, Fifth Edition, 2010, ISBN: 978-0-07-174170-5


✓Reference Books

- Matt J. Crouch, “ASP.NET and VB.NET Web Programming”, Pearson Education Asia, 2002
- Rahul Banerjee, “Internetworking Technologies”, Prentice-Hall of India Limited. Fourth Edition, 2000
- Thomas A. Powell, “Web Design: The Complete Reference”, Tata McGraw Hill, Second Edition, 2002

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Evaluation



Web Technology
Chapter – 1 : HTML and CSS

Internal Assessment Format [FM = 20] – Subject Teacher


Term Examination		Assignment	Attendance	Total
Mid-Term	Pre-Final			
5	5	5	5	20


Practical Assignment Format [FM = 20] – External Examiner will be assigned by Dean Office, FoHSS



Practical	Viva	Lab Reports	Total
10	5	5	20



[Note: Assignment may be subject specific case study, seminar paper presentation, report writing, project work, research work, presentation, problem solving, etc.]

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Evaluation				
Final Examination Question Format [FM = 60, Time 3 hrs]				
SN	Question Type	Number of Questions	Marks per Question	Total Marks
1	Group – 'A' Objective Type Questions (Multiple Choice Questions) Attempt all the questions	10	1	10 x 1 = 10
2	Group – 'B' Short Questions (Attempt any SIX questions)	7	5	6 x 5 = 30
3	Group – 'C' Long Questions (Attempt any TWO questions)	3	10	2 x 10 = 20
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Tools Required				
<ul style="list-style-type: none"> • Text Editor (Notepad, Sublime Text, Visual Studio Code) • Visual Studio 2019 Community or Any Version VS2013, VS2015 • Internet Information Services (IIS) Server <p><u>(Microsoft Server or Microsoft OS)</u></p> <p>DBMS – MySQL or MSSQL</p>				
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