

FACULTY OF COMPUTER APPLICATIONS
Bachelor of Science (Information Technology)
B.Sc. (IT)

- **Sem.** : 2
- **Subject Code** : 05BS0203
- **Subject** : Internet Technologies
- **Course Objectives** :
 1. Students will be able to design and develop an interactive website using HTML5.
 2. Students will be able to understand different elements of web-application.
 3. Analyze and apply CSS to make website more presentable.
 4. Provide facility to design an interactive website using JavaScript.
 5. Students can make their web site creative using JQuery.
- **Prerequisites** : Basics of Computer

Unit No	Topics Covered	No of lectures required
1	Internet & WWW Introduction to internet, How Internet works , Introduction to WWW , Internet and web, how web works, History of web , Introduction of Internet addressing, IP address , Domain names , DNS,URL,E-mail addresses , Introduction of Internet Protocols , TCP/IP ,FTP , HTTP.	08
2	Introducing HTML5 Difference between traditional HTML4 & HTML5, Introduction to HTML5, HTML5 document structure, HTML5 tags & attributes: Text formatting tags, List tags, adding background, special characters, links, anchor tag, image tag, working with image map	10
3	Advanced HTML5 Creating and working with tables, forms and frames,	10

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	adding multimedia to web page using audio and video, Canvas, SVG, Drag/Drop, Geo-location, iframes, URL Encode, Quick List, Semantic, Web Semantic, Application Cache, SSE(Server Sent Event)	
4	CSS3 Introduction, types of CSS, Box Model and Text Flow, Grouping or Nesting, Pseudo-class, Pseudo-element, Navigation Bar, Image Manipulation, Media Types, Attribute Selectors, Borders, Gradients, Text Effect, Animations	10
5	JavaScript & JQuery Introduction to Java script, variables, java script operators, conditional statements and loops, JavaScript break and continue statement, Dialog boxes, JavaScript Arrays, JavaScript Events, JavaScript User Define Function, JavaScript Built in Functions. JQuery Introduction to JQuery ,exploring jQuery Selectors, methods, manipulators, events and effects	12

Course Outcomes :

1. Students will be able to understand how Internet and protocol works.
2. Students will be able to apply different HTML5 tags to develop user friendly web-site.
3. Students will be able to develop website using multimedia tags like audio and video.
4. Students will be able to apply CSS to make website presentable.
5. Students will be able to design and develop dynamic website using Javascript and JQuery.

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Course Outcomes – Program Outcomes Mapping Table :

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	L	M						L		L	
CO2		H	L		L	M					
CO3				M		H	M		M		L
CO4					M			M		M	
CO5								H	H	H	H

Text Book :

- 1) Internet for Everyone , Alexis leon, Mathews Leon ,1st Edition
- 2) HTML & CSS Design and build Websites , Jon Ducket , Published by John Wiley & Sons, Inc., 1st Edition
- 3) HTML5 Black Book: Covers CSS3, Javascript, XML, XHTML, Ajax, PHP and Jquery, by DT Editorial Services, Dreamtech Press, 2nd Edition

Reference Books :

- 1) HTML: A Beginner's Guide 5/E, Wendy Willard, 5th Edition.
- 2) Using the Internet, Honey Cutt, PHI Learning, 4th Edition
- 3) Powell Thomas, "HTML & CSS The Complete Reference, Tata McGraw Hill , 1st Edition

Web References :

- 1) www.w3school.com
- 2) html.com
- 3) www.udemy.com
- 4) Geekfogeeks.com

App References :

- 1) SoloLearn
- 2) Encode
- 3) Grasshopper



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Syllabus Coverage from text /reference book & web/app reference:

Unit #	Chapter Numbers
1	Book-1 Chapter :1.1,1.2 , 4.1 - 4.4 , 8 , 9.1-9.5
2	Book-2 Chapter: 1,2,3,4,5
3	Book-2 Chapter: 6,7,8,9
4	Book-2 Chapter : 11,12,13,14,15,16
5	Book-2 Chapter : 12,39

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PRACTICALS

Unit No	List of Practicals
1	1. Write a program to describe various text formatting commands. 2. Write a program to create a simple Unordered list. 3. Write a program to create a simple Ordered list. 4. Write a program to create a Table. 5. Write a program to create a simple form. 6. Write a program to create a Hyper link. 7. Write a program to insert an image to Web page. 8. Write a program to use super script and sub script tag. 9. Write a program to change back-ground color of page. 10. Write a program to create a simple layout of Webpage.
2	1. Write html code to insert background to the webpage 2. Create a web page with appropriate content and insert an image towards the left hand side of the page when user clicks on the image, it should open another web page. 3. Create a web page showing an ordered list of names of the subjects, with nested list if any subject has been selected it should display the content of each subject 4. Suppose your company has three employees and you want to create a company "directory page" listing some information about each of them. 5. Write the HTML for that page and link 1 employee to another employee. 6. Write the HTML to make it possible for someone clicking the words 'About the authors' at the top of the page to skip down to a list of credits at bottom of the page. 7. Create an ordered list of stream and name of subjects. When user clicks on stream, it should open stream and when user clicks on subject name, it must display details of subject. 8. Create unordered list of menu of restaurant. 9. Write html code which allows the user to move within a same web page. 10. Write an html code to create a form to display complete detail of student including student name, city, stream, class, email id, gender using different list.
3	1. Write an HTML code to create table with iframe to display student data. 2. Write an HTML code to use action attribute of form. 3. Write an HTML code to use method attribute of form. 4. Write an HTML code to use label and textarea elements of form. 5. Write an HTML code to use button and select elements of form.

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	<ol style="list-style-type: none"> 6. Write an HTML code to use input element of form. 7. Write an HTML code to play a video file. 8. Write an HTML code to play an audio file 9. Write an HTML code to draw 4 different Canvas. 10. Write an HTML code to draw 4 different shapes using SVG.
4	<ol style="list-style-type: none"> 1. Write a text with color in HTML page using Inline CSS. 2. Write a text with color in HTML page using Internal CSS. 3. Write a text with color in HTML page using External CSS. 4. Write a program to display use of different selectors in CSS. 5. Write a program to create a HTML page in which, if you mouse over on image so image opacity will be decreased and if you mouse out so, it gains the original opacity back using CSS. 6. Write a program to create one 3x3 HTML table which display different color name in each cell and when you mouse over on that cell so it change the bgcolor of that cell as per the color is mentioned in that cell using CSS. 7. Write a program to change fonts and style of fonts using CSS. 8. Write a program to change the color of hyperlink using CSS. 9. Write a program to create Navigation bar using CSS. 10. Write a two different paragraph in your HTML page and apply different formatting to both of that using external stylesheet
5	<ol style="list-style-type: none"> 1. Write a program to change the HTML content using javascript. 2. Write a program to create an array in javascript. 3. Write a program to create a function using javascript. 4. Write a program to for different loops in Javascripts. 5. Write a program to represent all events of JavaScript. 6. Write a program for Mouse events of JQuery 7. Write a program for Keyboard events of JQuery 8. Write a program for Form events of JQuery 9. Write a program for Keyboard events of JQuery 10. Write a program for Form events of JQuery