

St. Xavier's College (Autonomous), Ahmedabad

Syllabus of Semester – I of the following departments under
Faculty of Computer Science based on Undergraduate
Curriculum Framework to be implemented from the
Academic Year 2024-25.

DEPARTMENT OF COMPUTER SCIENCE

BCA (Hons.)

Category-IV

Multidisciplinary Course: Web Development using HTML(MDC202-1C)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course Title & Code	Credit Distribution of The Course			Eligibility Criteria	Prerequisite(s) of the Course (if any)
	Lecture	Tutorial	Practical / Practice		
Introduction to HTML	2		2	10 + 2 from a recognized board in any stream	Nil

Learning Objectives

This minor course is designed to provide an introduction web development using HTML. This course shall insight students about the hypertext mark-up language. The course will cover the tags and attributes of the different elements to design webpage. The course will also include different elements such as structure of webpage, headings, text formatting, tables, list forms, and other html 5 elements.

Learning Outcomes

- To understand about the markup language.
- To acquire the concept to design simple html structure.
- To learn the various tags to add comments, lines and formatting to webpage.
- To familiarize with the html table and list operations.
- To give awareness about the form and related elements.
- To give an insight to HTML 5.

Syllabus of BCA-1201 Web Development using HTML

Unit 1: Introduction to HTML

- HTML
 - Introduction
 - HTML document structure
 - Adding text in newline(
</BR>)
 - Creating heading (<h1></h1> to <h6></h6>).
 - Creating a paragraph (<P>---</P>)
 - Creating a horizontal ruler (<HR>---</HR>)
 - Sub Script, Super Script, Text
 - Alignment(<align>---</align>)
 - Formatting Of text (, <U>, <I>)
 - Font tag with all attributes
 - Grouping of text (<Div>---</Div>, ---)
 - Scrolling text<marquee>---</marquee> with its attributes)
 - Working with Character entity / Special character Codes
 - HTML Comments
- Order list
 - Unordered list
 - Definition list
- Working with Links: anchor tag with its entire attribute. To link documents with “target” attributes.
- Working with table:
 - Creating table
 - Specifying caption
 - Table headings
 - All table related Tags & attributes.(rowspan ,colspan

Unit 2 Introduction to advance HTML

- Advanced HTML
- Working with Images:
 - `---``` & all its Attributes
 - Creating Image maps (`<map>---``</map>` & `<area>---``</area>`) and their attributes
- Working with Forms:
 - Creating form(`<form>---``</form>`) & all its attributes
 - Adding controls to an HTML form
 - `<Input>---``</input>` tag and its all attribute
 - `<text area>-----``</text area>`
 - Adding a selection control
 - Grouping the control of html forms(`<Field set>` and `<legend>` tags)
 - HTML5 form elements
- Introduction to HTML5
 - The `<!DOCTYPE html>` Element
 - Introduction to new elements in HTML 5
- The Markup Elements using :
 - `<section>`
 - `<article>`
 - `<aside>`
 - `<details>`
 - `<figcaption>`
 - `<figure>`
 - `<footer>`
 - `<header>`
- The Media Elements
 - `<audio>`
 - `<video>`
 - `<plug-ins>`
- HTML Graphics:
 - The Canvas Elements
 - And SVG (Scalable Vector Graphics)

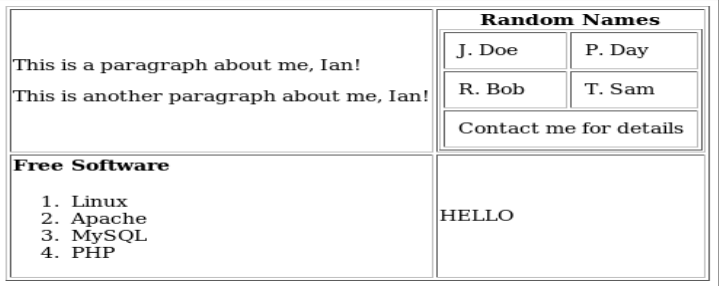
For applying the theory into practical

Unit 1: Introduction to HTML practical

1	Creating and saving simple HTML document. And opening in web browser
2	Modifying the background of HTML webpage (with colors & images)
3	Insert a line break in web page content. (use of) using heading tags(<h1>.....<h6>)
4	Creating a paragraph(Using <p>-----</p>) using <hr> tag
5	Demonstrate use of subscript, super script, align tag ,with different text formatting bold , italic, underline
6	Create web page which demonstrate the use of font tag
7	Create web page with <div> tag.
8	Create web page with tag.
9	Create web page with <blockquote> tag.
10	Create webpage using different attributes of body tag.
11	Demonstrate the use of Marquee tag. (including its all attributes)
12	Write HTML program to insert special characters And comment
13	Write HTML program to insert special characters in Chess board.
14	Write HTML program to create a simple order list.
15	Write HTML program to create a simple Unordered list.
16	Write HTML program to create definition list.
17	Write HTML program to create order list within Unordered list.
18	Write HTML program to create Unordered list within Unordered list.
19	Write HTML program to create order list within order list using Like fruits, vegetables, subjects etc.

20	Create any example according to you using all types of list with its attributes.
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Unit 2 Introduction to advance HTML practical

1	Write HTML program to create simple table with its border attribute.
2.	Write HTML program to create complex table like 
3	Create Mark sheet, Electricity bill, telephone bill, time –table with use of Text formatting tags, back-ground color, and font.
4	Create Web page to Print BCA HTML Syllabus using table.
5	Write HTML program to demonstrate use of different LINK, ALINK and VLINK attributes of body tags
6	Create a webpage for online Jewellery shopping. Display Menu in left frame. Clicking on menu should display related webpage in right frame. Keep header and footer frames to display related information.
7	Create Web page to apply in job using filling form online.
8	Create a webpage with images, with audio and video.
9	Inserting Image on a web page (with all attributes).
10	Write HTML program in which make image as a link.
11	Write HTML program to e-mail registration form.
12	Write code for create images using canvas
13	Create a web page for user registration form. Assume related information and use appropriate control

Essential / Recommended Readings:

- Internet Technology and Web Design(First Edition-2011), Publisher: Tata McGraw Hill, By ISRD group
- HTML 5 in SIMPLE STEPS, Publisher: DREAMTECH PRESS, BY Kogent Learning Solutions Inc.
- Internet and HTML, Computer world publication

Suggestive Readings:

- Internet and HTML, Computer world publication, World wide web Design with HTML(First Edition-2010), Tata McGraw Hill, By C Xavier
- Web Enabled commercial application development using HTML, Javascript, DHTML and php, BPB Publication, By Ivan Bayross