

MSC (CA&IT) - Semester: I

(Effective from year 2023-24)

Course Code:	CAIT-102	Course Title:	Web Designing and Programming - I
Course Credits:	02	Hour of Teaching/Week:	02
Internal Assessment Marks:	25	External Exam Marks:	25
Exam Duration	2 Hrs		

Unit	Contents
1.	<p>Introduction to Internet and Web Technologies:</p> <p>Introduction to the Internet, History of the Internet, Services provided by the Internet, Some basic terminology and concepts (WWW, URL, webpage, web site, web servers, web browsers, HTML, search engines, etc.) , Introduction to Web Technologies, Careers in Web Technologies and Job Roles, How the Website Works?, Client and Server Scripting, Languages , Domains and Hosting, Responsive Web Designing, Types of Websites (Static and Dynamic Websites)</p> <p>What is Markup Language, Basic Structure of HTML, Difference Between HTML and XHTML, Head Section and Elements of Head Section, Meta Tags, Css Tags, Script Tag, Table Tag, Div Tag, Header Tags, Paragraph, Span, Pre Tags, Anchor Links and Named Anchors, Image Tag, Object Tag, Iframe Tag, Forms, Form Tag, Attributes of Form, POST and GET Method, Fieldset and Legend, Text input, Text area, Checkbox and Radio Button, Dropdown, List and Optgroup, File Upload and Hidden Fields, Submit, Image, Normal, Reset Button, Creating a Live Website Form, HTML Validators</p> <p>Introduction to HTML5, Features of HTML5, HTML5 DocType, New Structure Tags, Section, Nav, Article, Aside, Header, Footer, Designing a HTML Structure of Page, New Media Tags, Audio Tag, Video Tag, Canvas and Svg Tag, Placeholder Attribute, Require Attribute, Pattern Attribute, Autofocus Attribute, email , tel, url types, number type, date type, range type, voice search</p>
2.	<p>Introduction to Cascading Style Sheets, Types of CSS, CSS Selectors, Universal Selector, ID Selector, Tag Selector, Class Selector, Sub Selector, Child Combinatory, Selector, Adjacent Sibling Selector, Attribute Selector, Group selector, First-line and First-letter selector, Before and After Selector, CSS Properties & Type Properties, Background Properties, Block Properties, Box Properties, List Properties, Border Properties, Positioning Properties, Realtime Implementation, Conversation of Table to CSS Layout, CSS Menu Design (Horizontal, Vertical)</p>

Introduction to CSS 3, New CSS 3 Selectors, Attribute Selectors, First-of-type, Last-of-type, Nth-child, Element: empty, New CSS3 Properties, Custom Fonts, Text-Shadow Property, Text-Stroke Property, Rounded Corners, Box Shadows, CSS Gradients, CSS Multiple backgrounds, Opacity Property, Transition effect, Transform effect, Animation effects, Css Media Queries

Responsive Web Design with Bootstrap

Introduction to Responsive Design, Mobile first design concepts, Common device dimensions, Viewport tag, Using css media queries, Menu conversion script, Basic Custom Layout, Introduction to Bootstrap, Installation of Bootstrap, Grid System, Forms, Buttons, Icons Integration, Using CSS3

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Text Books

1. Ivan Bayross, "Web Enabled Commercial Applications Development using HTML,DHTML, Javascript, Perl CGI", BPB, 2004
2. Xavier C : World Wide Web Design With HTML, Tata McGraw Hill Publication
3. Bootstrap 4 Quick Start: A Beginner's Guide to Building Responsive Layouts with Bootstrap 4
Jacob Lett, 2018

References

References

1. Jon Duckett: HTML and CSS: Design and Build Websites
2. Ben Frain: Responsive Web Design with HTML5 and CSS
3. DT Editorial Services: HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery)

External Exam Format : As per Table 1.1, 1.2 and 1.3

MSC (CA&IT) - Semester: I

(Effective from year 2023-24)

Course Code:	CAITCC-102-P	Course Title:	Lab : Practical based on CAIT-102
Course Credits:	02	Hour of Teaching/Week:	04
Internal Assessment Marks:	25	External Exam Marks:	25
Exam Duration	2 Hrs		

List of Sample Programs

1. Develop a simple web page having attractive background color, text color.
2. Develop a HTML document for a web page of your course detail. Design a page with attractive font, suitable heading and horizontal rules (use paragraph and line tag).
3. Develop a HTML document with an example of Ordered Lists and Unordered List.
4. Develop a HTML document for a web page of your favorite teacher. Design a page with attractive color combination, suitable headings and appropriate text styles.
5. Develop a HTML document for a web page having the Image and also indicate the another image as background.
6. Develop a HTML document for a web page with an example of Table Format having the information of Hardware and Software used in your lab.
7. Develop a HTML document for a web page of your Bio-Data with use of Table tag.
8. Develop a HTML document for a web page with use of frame and frameset tag.
9. Develop a HTML document for a web page which linking with another pages.
10. Develop a HTML document having the Student Information Form.(Use all necessary tags)
11. Develop an HTML document which will use style sheets. Use inline style sheet and external style sheet.
12. Develop an HTML document for a web page of your favorite National Leader. Design the page with an attractive color combination, with suitable headings and horizontal rules.
13. Write an HTML document with an example of Table format to print your Telephone Bill. Write an HTML code for designing the subscription form of mail account in the e-mail website with appropriate fields.
14. Using HTML, CSS create a styled checkbox with animation on state change.
15. Using HTML, CSS create a staggered animation for the elements of a list.
16. Using HTML, CSS, JavaScript create a typewriter effect animati

17. Using HTML, CSS create an animated underline effect when the user hovers over the text.
18. Create Responsive login, signup and home page of website using bootstrap.

External Exam Format : As per Table 1.1, 1.2 and 1.3