

SEMESTER-I**MAJOR-1**

CourseTitle	:HTML & CSS	CourseCode	: 13P
Semester	: I	CourseGroup	: NA
Teaching Scheme in Hrs (L:T:P)	: 4:2:0	Credits	: 6
Map Code:	NA	Total Contact Hours	: 90
FormativeAssessment	: 50Marks	Summative Assessment(SEE):	50 Marks
Programme:	MCA	# -	Semester EndExam

No.	Course Outcome	POs & PSOs	Cl. Ses	CL
CO1	Understand the basic concepts of web and HTML file structure	PO1, PO2, PO3, PO4 & PSO1, PSO2	12L + 6T	Ap
CO2	Apply style to the static webpage and box model	PO1, PO2, PO3, PO4 & PSO1, PSO2	12L + 6T	Ap
CO3	Introduction to page layout ,lists and links	PO1, PO2, PO3, PO4 & PSO1, PSO2	10L + 4T	Ap
CO4	Understand and Apply images to web pages	PO1, PO2, PO3, PO4 & PSO1, PSO2	10L + 4T	Ap
CO5	Use table layout in web pages	PO1, PO2, PO3, PO4 & PSO1, PSO2	8L + 4T	Ap
CO6	Implement form controls, audio and video in web pages	PO1, PO2, PO3, PO4 & PSO1, PSO2	8L + 4T	Ap

PEDAGOGY:

Lecture, Group Discussion, LCD, OHP, Seminar and Case Study.

UNIT – I

18 Hours

Introduction to web development: How web applications work (The components of a web application, How static web pages are processed, How dynamic web pages are processed, A survey of web browsers and server-side scripting languages, How client-Side JavaScript fits into web development) - An introduction to HTML and CSS (The HTML for a web page, The CSS for a web page, A short history of the HTML and CSS standards) - Tools for web development (Text editors for HTML and CSS, IDEs for web development, FTP programs for uploading files to the web server) - How to view deployed web pages (How to view a web page, How to view the source code for a web page) - Five critical web development issues (Users and usability, Cross-browser compatibility, User accessibility, Search engine optimization, Responsive Web Design)

How to code, test, and validate a web page: The HTML syntax (The basic structure of an HTML document, How to code elements and tags, How to code attributes, How to code comments and white space) The CSS syntax (How to code CSS rule sets and comments, How to code basic selectors) - How to use VS Code to work with HTML and CSS files (How to create a project, How to open an HTML file, How to start a new HTML file, How to edit an HTML file, How to open or start a CSS file, How to edit a CSS file, How to preview and run an HTML file) - How to test, debug, and validate HTML and CSS files (How to test and debug a web page, How to validate an HTML file, How to validate a CSS file)

How to use HTML to structure a web page : How to code the head section (How to code the title element, How to link to a favicon, How to include metadata) - How to code text elements (How to code headings and paragraphs, How to code special blocks of text, How to code inline elements for formatting and identifying text, How to code character entities, How to code the core attributes) - How to structure the content of a page (How to use the primary HTML5 semantic elements, How to use some of the other HTML5 semantic elements, When and how to code div and span elements) - How to code links, lists, and images (How to code absolute and relative URLs, How to code links, How to code lists, How to include images) - A structured web page (The page layout, The HTML file)

UNIT – II

18 Hours

How to use CSS to format the elements of a web page:

An introduction to CSS(Three ways to provide CSS styles for a web page, Two ways to provide for browser compatibility, How to specify measurements and colors, How to specify measurements, How to specify colors, How to use the CSS3 color specifications) - How to code selectors(How to code selectors for all elements, element types, ids, and classes, How to code relational selectors, How to code combinations of selectors, How to code attribute selectors, How to code pseudo-class and pseudo-element selectors) - How to work with Cascading Style Sheets(How the cascade rules work, How to use the developer tools to inspect the styles that have been applied) - How to work with text (How to set the font family and font size, How to set the other properties for styling fonts, How to set properties for formatting text, How to use CSS3 to add shadows to text, How to float an image so text flows around it) - A web page that uses external style sheets (The page layout, The HTML file, The CSS file).

How to use the CSS box model for spacing, borders and backgrounds:

An introduction to the box model (How the box model works, A web page that illustrates the box model) - How to size and space elements(How to set heights and widths, How to set margins, How to set padding) - A web page that illustrates sizing and spacing(The HTML for the web page, The CSS for the web page, A version of the CSS that uses a reset selector) - How to set borders and backgrounds(How to set borders, How to use CSS3 to add rounded corners and shadows to borders, How to set background colors and images, How to use CSS3 to set background gradients) - A web page that uses borders and backgrounds (The HTML for the web page, The CSS for the web page)

UNIT – III

14 Hours

How to use CSS for page layout:

How to float elements in 2- and 3-column layouts(How to float and clear elements, How to use floating in a 2-column, fixed-width layout, How to use floating in a 2-column,fluid layout, How to use floating in a 3-column, fixed-width layout) - Two web pages that use a 2-column, fixed-width layout (The home page, The HTML for the home page, The CSS for the home page, The speaker page, The HTML for the speaker page, The CSS for the speaker page) - How to use CSS3 to create text columns(The CSS3 properties for creating text columns, A 2-column web page with a 2-column article) - How to position elements(Four ways to position an element, How to use absolute positioning, How to use fixed positioning, A table of contents that uses positioning)

How to work with lists and links:

How to code lists(How to code unordered lists, How to code ordered lists, How to code nested lists, How to code description lists) - How to format lists (How to change the bullets for an unordered list, How to change the numbering system for an ordered list, How to change the alignment of list items) - How to code links (How to link to another page, How to format links, How to use a link to open a new browser window or tab, How to create and link to placeholders, How to link to a media file, How to create email, phone, and Skype links) - How to create navigation menus (How to create a vertical navigation menu, How to create a horizontal navigation menu, How to create a 2-tier navigation menu, How to create a 3-tier navigation menu, The CSS for a 3-tier navigation menu)

UNIT – IV

26 Hours

How to work with images:

Basic skills for working with images(Types of images for the Web, How to include an image on a page, How to resize an image, How to align an image vertically, How to float an image) - Advanced skills for working with images (How to use the HTML5 figure and figcaption elements, How to work with thumbnails, How to do image rollovers, How to create image maps) - Related skills for working with images (When to use an image editor, How to get images and icons, How to create favicons)

How to work with tables:

Basic HTML skills for coding tables (An introduction to tables, How to create a table, How to add a header and footer) - Basic CSS skills for formatting tables (How to use CSS properties to format a table, How to use the CSS3 structural pseudo-classes for formatting tables) - Other skills for working with tables (How to use the HTML5 figure and figcaption elements with tables, How to merge cells in a column or row, How to provide for accessibility, How to nest tables, How to control wrapping)

How to work with forms:

How to use forms and controls (How to create a form, How to use buttons, How to use text fields, How to use radio buttons and check boxes, How to use drop-down lists, How to use list boxes, How to use text areas, How to use labels, How to group controls with field set and legend elements, How to use a file upload control) - Other skills for working with forms (How to align controls, How to format controls, How to set the tab order and assign access keys) - How to use the HTML5 features for data validation (The HTML5 attributes and CSS selectors for data validation, How to use regular expressions for data validation, How to use a data list to present entry options) - How to use the HTML5 controls (How to use the email, url, and tel controls, How to use the number and range controls, How to use the date and time controls, How to use the search control for a search function, How to use the color control, How to use the output element to display output data, How to use the progress and meter elements to display output data) - A web page that uses HTML5 data validation(The page layout, The HTML, The CSS)

How to add audio and video to your website:

An introduction to media on the web (Common media types for video and audio, Video codecs, Audio codecs, Audio and video support in current browsers, How to encode media) - How to add audio and video to a web page (**How** to use the object and param elements, How to use the embed element, How to use the HTML video and audio elements, How to fall back to Flash for backward compatibility) - A web page that offers both audio and video (The page layout, The HTML)

REFERENCES:

1. Murach's HTML5 and CSS3 (3rd Edition) by Zak Ruvalcaba and Anne Boehm.
2. HTML & CSS: The Complete Reference, Publication-McGraw Hill Education; 5th edition by Thomas Powell 2017.
3. Mastering Responsive Web Design: Push your HTML and CSS skills to the limit and build professional grade, responsive websites BY Ricardo Zea Publication-Packt Publishing Limited - 2015.
4. Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics, Fifth Edition, 2018, by Jennifer Robbins Publication- Shroff/O'Reilly;

5. Mastering HTML, CSS & Javascript Web Publishing by Laura Lemay (Author), Rafe Colburn (Author), Jennifer Kyrnin (Author) Publication- BPB Publications; First edition-2016

MAJOR-3

CourseTitle : PRACTICAL – I : WEB DESIGNING USING HTML & CSS	CourseCode :
Semester : I	CourseGroup : NA
Teaching Scheme in Hrs (L:T:P) : 0:0:6	Credits : 3Credits
Map Code: NA	Total Contact Hours : 90
FA : 50Marks	SEE# : 50 Marks
Programme: MCA	# - Semester EndExam

No.	Course Outcome	POs&PSOs	Cl.Ses	CL
CO1	Understand the basic concepts of WEB and HTML structure	PO1,PSO2	15P	U
CO2	Create Static Webpage with List, Image, Links and Tables	PO2,PSO2	15P	Ap
CO3	Apply style to the static web page	PO1,PSO2	15P	Ap
CO4	Implement the layouts with form controls	PO1,PSO2	15P	Ap
CO5	Create Responsive grids, container with navigation	PO1,PSO2	15P	Ap
CO6	Implement Media query and make a complete UI for an Web Application	PO1,PSO2	15P	Ap

PEDAGOGY:

Lecture, Group Discussion, LCD, OHP, Seminar and Case Study.

UNIT-I **(15 Hours)**

HTML: Introduction to HTML (Base html page for E commerce landing page)

UNIT-II **(15 Hours)**

HTML: Intermediate HTML (Add table to list features in ecommerce landing page)

UNIT-III **(15 Hours)**

CSS: Introduction and Intermediate to CSS (Attach CSS to set font sizes, color and alignment for sections and paragraphs)

UNIT-IV **(15 Hours)**

Bootstrap 4: Introduction to Bootstrap 4 (add bootstrap classes like jumbotron, navbar, modal, forms, input group, collapse etc to make website appear user friendly in mobile screen.)

UNIT-V **(30 Hours)**

Bootstrap 4: Intermediate Bootstrap (Make sliding ads in landing pages with carousel, offer items as cards and different sizes for different orientations with media query)

REFERENCES:

1. Murach's HTML5 and CSS3 (3rd Edition) by Zak Ruvalcaba and Anne Boehm.
2. HTML & CSS: The Complete Reference, Publication-McGraw Hill Education; 5th edition by Thomas Powell 2017.
3. Mastering Responsive Web Design: Push your HTML and CSS skills to the limit and build professional grade, responsive websites BY Ricardo Zea Publication-Packt Publishing Limited - 2015.
4. Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics, Fifth Edition, 2018, by Jennifer Robbins Publication- Shroff/O'Reilly;
5. Mastering HTML, CSS & Javascript Web Publishing by Laura Lemay (Author), Rafe Colburn (Author), Jennifer Kyrnin (Author) Publication- BPB Publications; First edition-2016