

<b>COURSE TITLE</b>	<b>INTRODUCTION TO WEB TECHNOLOGIES</b>
<b>COURSE CODE</b>	<b>05MB0102</b>
<b>COURSE CREDITS</b>	<b>2</b>

**Objective:**

- 1 Aim to provide an overview of web page, websites, types of websites and structures of it.
- 2 Will able to make basic structure of web page using HTML.
- 3 Goal is to provide a comprehensive understanding designing of attractive webpages by adding CSS.
- 4 Cover CDN, local installation of bootstrap and adding classes for the effective designs.
- 5 Teach scripting language, to add logics into webpages and make it responsive.

**Course Outcomes:** After completion of this course, student will be able to:

- 1 Students will have understanding of the structure of the web, webpages, websites and types of websites.
- 2 Candidates will able to make webpage, website structure design
- 3 Students will able to develop their designing skills with CSS.
- 4 Students will able to add Bootstrap classes for effective designs.
- 5 To learn about CDN and well-designed the webpage with logics of scripting.

**Pre-requisite of course:**NA

**Teaching and Examination Scheme**

<b>Theory Hours</b>	<b>Tutorial Hours</b>	<b>Practical Hours</b>	<b>ESE</b>	<b>IA</b>	<b>CSE</b>	<b>Viva</b>	<b>Term Work</b>
2	0	0	50	30	20	0	0

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Introduction to Web &amp; HTML</b> What is Web, what is WWW, Web Page, Web site - Static and Dynamic website, Web application - Client-server, Web development Technologies- HTML, CSS, JS, XML, Servlet & JSP, PHP and Ajax, Database, Front end, Back end., Introduction to HTML, HTML structure, Page Layout Semantic Elements, HTML element/tag & attributes, Designing simple page - HTML tag, Head tag, Body tag; More HTML tags - Anchor tag, Image tag, Table tag, List tag, Frame tag, Div tag, HTML forms - Input type, Text area, Select, Button, Checkbox, Dropdown., Displaying a Search Input Field, Contact Information Input Fields, Utilizing Date and Time Input Fields, Number Inputs, Selecting from a Range of Numbers., Selecting Colors Creating an Editable Drop-Down Requiring a Form Field, Autofocusing a Form Field. , Adding Video and audio to a page Supported Audio and video format.	15
2	<b>CSS, BOOTSTRAP &amp; JAVASCRIPT</b> Introduction to CSS, Syntax, and Selectors., Embedding CSS to HTML, Types of CSS., Formatting fonts, Text with decoration, alignments, and background color., Borders and outline, Box Properties – margin, padding, Link, List, Table, Display, Min-Max Height, Width, transform, Animation, Pagination, Form, Media Queries., What is Bootstrap Framework Why Bootstrap, Major Features of Bootstrap., What are Bootstrap Components, Bootstrap Grid, Colors, Tables, Images, Alerts., Buttons, Progress Bars, Spinners, Paginations, List, List Groups, Cards, Nav Bar., Carousel, Popovers, Forms with checkbox, radio, Rang, Inputs, Floating Labels. , Introduction to JS, Embedding JS into Html., Woking with Variables, Data Types, Operators., Conditional statements, Looping statements. , Strings, Arrays, Math Objects, Date Objects., Functions, Objects, and Event Handling	15
<b>Total Hours</b>		<b>30</b>

**Textbook :**

- 1 HTML and CSS: Design and Build Websites, Jon Duckett, Wiley, 2021

**References:**

- 1 Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics, Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics, Jennifer Niederst Robbins, O'Reilly Media, 2018
- 2 JavaScript and JQuery: Interactive Front-End Web Development, JavaScript and JQuery: Interactive Front-End Web Development, Jon Duckett, Wiley, 2014
- 3 Bootstrap 4 Quick Start: Responsive Web Design and Development Basics for Beginners, Bootstrap 4 Quick Start: Responsive Web Design and Development Basics for Beginners, Jacob Lett, Bootstrap Creative, 2018
- 4 JavaScript: The Good Parts, JavaScript: The Good Parts, Douglas Crockford, O'Reilly Media, 2008

### **Suggested Theory Distribution:**

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
<b>Remember / Knowledge</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Higher order Thinking / Creative</b>
10.00	20.00	25.00	25.00	10.00	10.00

### **Instructional Method:**

- 1 Board work
- 2 PPT

### **Supplementary Resources:**

- 1 <https://developer.mozilla.org/en-US/>
- 2 <https://www.w3schools.com/html/default.asp>
- 3 <https://www.freecodecamp.org/>