Course: Major
Web Technology (HTML-JSS-CSS)

Semester: II	Credits: 2	Subject Code: BCMAJCLA223140	Lectures: 30

Course Learning Outcomes:

At the end of this course the learner will be able to,
- CO1: Recall the structure of an HTML document, HTML elements and its attributes.
- CO2: Understand the use of scripting language in web designing.
- CO3: Apply markup languages for processing, identifying, and presenting of information in web pages.
- CO4: Examine the various concepts of JavaScript.

Unit 1: Introduction to WWW, HTML and CSS	15

- Clients- Servers and Communication
- Internet-Basic, Internet Protocols (HTTP, FTP, IP)
- World Wide Web (WWW)
- HTTP request message, HTTP response message
- Introduction to HTML
- Basic HTML Structure
- Common HTML Tags
- Physical and Logical HTML
- Types of Images, client side and server-side Image mapping
- List, Table, Frames
- Embedding Audio, Video
- HTML form and form elements
- Need for CSS
- Introduction to CSS
- Basic syntax and structure
- Using CSS-
- Background images, colors and properties
- Manipulating texts, using fonts, borders and boxes, margins, padding lists, positioning using CSS

Unit 2: Java Script	15

- Introduction to Java Script
- Identifier & operator, control structure, functions
- Document object model (DOM)
- DOM Objects (window, navigator, history, location)
- Predefined functions, math & string functions

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- Array in Java scripts
- Event handling in Java script
- JavaScript Exception Handling: Exceptions and Errors, Exception Mechanism , "Try- , Catch-Finally", Throwing Exceptions
- Form in JavaScript: Accessing form within Javascript, <Input> element Object, Properties of Form Object, Methods of form Object, Text Input Object, Password Input Object, Button Element Object, Checkbox Element Object, Radio Element Object, Image Element Object
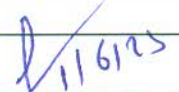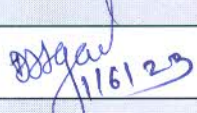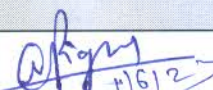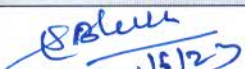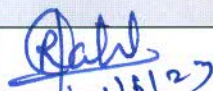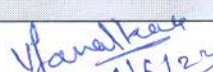
Recommended Text Books:

- Kiran Gurbani, *Web Programming*, Himalaya Publication House, 2017
- David Flanagan, *JavaScript*, O'REILLY Publication,2011
- Laura Lemay, *Mastering HTML, CSS & JavaScript Web Publishing*, BPB Publication,2016

Reference Books:

- Steven Holzner, *HTML Black Book*, Paraglyph Press,2009
- Thomas Powell, *The Complete Reference JavaScript*, Mc Graw Hill Edition,2004
- Vaibhav Sakpal, Hiren Dand, *Web Programming with HTML5, JavaScript and PHP*, Shroff Publishers and distributors PVT.LTD, 2017

Websites:

https://www.tutorialspoint.com/
www.w3schools.com
https://www.codecademy.com/learn/learn-html
https://www.studytonight.com/javascript

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