



Web Technology (HTML-JSS-CSS)
Web Technology (HTML-JSS-CSS)
[CORE COURSE]

| | | | |
|---------------------|-------------------|------------------------------|---------------------|
| Semester: II | Credits: 3 | Subject Code: BC22005 | Lectures: 48 |
|---------------------|-------------------|------------------------------|---------------------|

Course Learning Outcomes:

At the end of this course the learner will be able to,

- Recognize the structure of an HTML document, HTML elements and its attributes.
- Create sample projects using HTML, CSS and JavaScript.
- Apply their mind to create attractive web application.
- Recall the use of hyperlinks to connect various HTML pages together.
- Develop various scripting language and use them with various technologies.

Unit 1: Introduction to WWW

4

- Clients- Servers and Communication
- Internet-Basic, Internet Protocols (HTTP, FTP, IP)
- World Wide Web (WWW)
- HTTP request message, HTTP response message

Unit 2: Web Design

8

- Concepts of effective web design
- Web design issues including Browser Bandwidth and Cache
- Display resolution
- Look and Feel of the Website
- Page Layout and linking
- User centric design
- Sitemap
- Planning and publishing website
- Designing effective navigation

Unit 3: HTML

12

- Introduction to HTML
- Basic HTML Structure
- Common HTML Tags
- Physical and Logical HTML
- Types of Images, client side and server-side Image mapping

| Board of Studies | Name | Signature |
|-------------------------|--------------------------|------------------|
| Chairperson (HOD) | Asst. Prof. Smita Borkar | |



| | |
|--|--|
| <ul style="list-style-type: none">• List, Table, Frames• Embedding Audio, Video• HTML form and form elements• Introduction to HTML Front Page | |
|--|--|

| | |
|--|----|
| Unit 4: Style sheets | 10 |
| <ul style="list-style-type: none">• 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• Overview and features of CSS2 and CSS3 | |

| | |
|--|----|
| Unit 5: JavaScript | 14 |
| <ul style="list-style-type: none">• Introduction to Java Script• Identifier & operator, control structure, functions• Document object model (DOM)• DOM Objects (window, navigator, history, location)• Predefined functions, math & string functions• Array in Java scripts• Event handling in Java script | |

#12 hours for Library work, assignments practical or field work

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


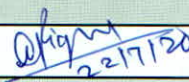

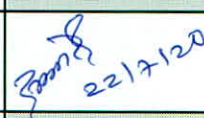
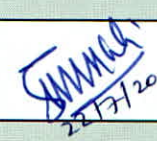

| Board of Studies | Name | Signature |
|-------------------|--------------------------|-----------|
| Chairperson (HOD) | Asst. Prof. Smita Borkar | |

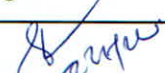


St. Mira's College for Girls, Pune
(FYBBA(CA) 2020-2023)

Websites:

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

| Board of Studies | Name | Signature | |
|-------------------------------|----------------------------|--|---|
| Chairperson (HOD) | Asst. Prof. Smita Borkar | |  |
| Faculty* | Asst. Prof. Monika Rajguru |  | |
| Faculty* | Asst. Prof. Divya Chitre | |  |
| Faculty Expert (Outside SPPU) | Dr. Sagar Jambhorkar |  | |
| Faculty Expert (Outside SPPU) | Dr. Shankar Mali | |  |
| VC Nominee | Asst. Prof. Anjum Patel |  | |
| Industry Expert | Mr. Sumit Singh Pal | | |
| One Alumni*** | Ms. Vidhi Thakkar | | |

| Board of Studies | Name | Signature |
|-------------------|--------------------------|---|
| Chairperson (HOD) | Asst. Prof. Smita Borkar |  |