

Web Technology

Course Code: 22UPCSC405

Credits: (3-0-0) 3

Semester: IV

Division: A & B

Semester Duration: Feb2024-June2024

Academic Year: 2023-24

Google classroom code: nqvmh7s



Contents at a Glance

UNIT-1

1.1 Introduction to Web

UNIT-2

2.1 Introduction to CSS
2.2 Advanced CSS

UNIT-3

3.1 Introduction to JavaScript

UNIT-4

4.1 Introduction to PHP

UNIT-5

5.1 Introduction to Web 2.0

5.2 Introduction to AJAX

5.3 Future of Web



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	Content	
UNIT-1	1.1 Introduction to Web: WWW1.0, HTML, HTML5, XHTML, XML, XSD, DTD, DOM- XML.	-08Hr
UNIT-2	 2.1 Introduction to CSS: What is CSS, CSS Syntax, Location of Styles, Selectors, The Cascade: How Styles Interact, The Box Model, CSS Text Styling. 2.2 Advanced CSS: Layout, Normal Flow, Positioning Elements, Floating Elements, Constructing Multicolumn Layouts, Approaches to CSS Layout, Responsive Design, CSS Frameworks. 	04Hrs 04Hrs
UNIT-3	3.1 Introduction to JavaScript: Basics, Strings, Arrays, Functions, Objects in JavaScript, -0 building simple applications using JavaScript and HTML.	08Hrs
UNIT-4	4.1 Introduction to PHP: Introduction to PHP, Datatypes, Control Statements, Loops, -Control Statements, Loops, Functions, Embedding PHP in HTML & MySQL.)8Hrs

Content

UNIT-5

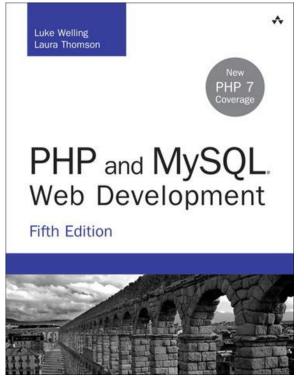
- **5.1 Introduction to Web 2.0:** Overview of WWW 2.0, JSON, Web Services SOAP & WSDL, RESTful.

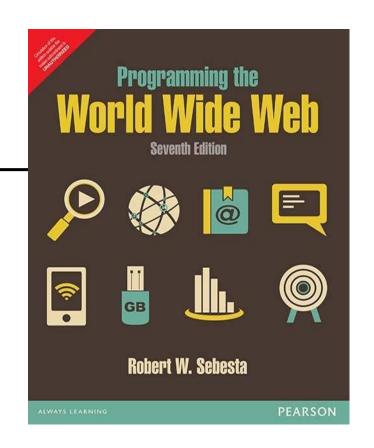
 -03Hrs
- **5.2 Introduction to AJAX**: Basics of AJAX, Asynchronous and Synchronous message transformation.

 -03Hrs
- **5.3 Future of Web:** Overview of Semantic Web, Applications of Semantic Web, Virtual Reality, Web

Books

1. Robert W. Sebesta, Programming the **World Wide Web**, 7/E Pearson Education, 2012.

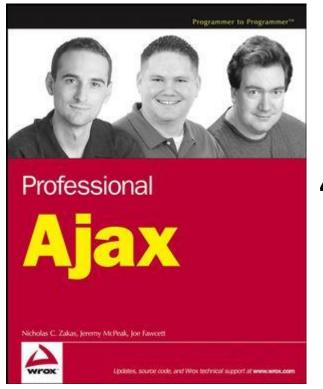


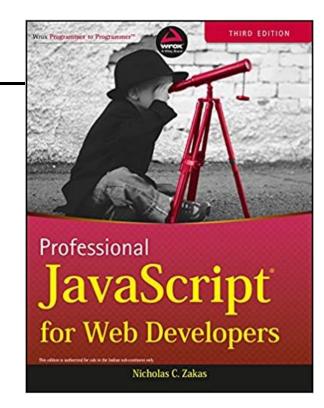


2. Luke Welling, Laura Thomson, "PHP and MySQL Web Development", 5th Edition, Pearson Education, 2016.

Books

3. Nicholas C Zakas, "Professional JavaScript for Web Developers", 3rd Edition, Wrox/Wiley India, 2012.



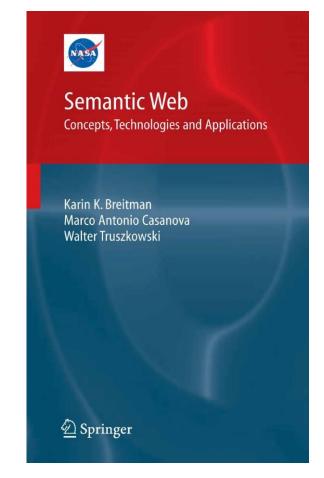


4. Nicholas C Zakas et al, **Professional AJAX**, Wrox, 2007.

Books

5. Karin K. Breitman, Marco Antonio Casanova and Walter Truszkowski,

Semantic Web: Concepts, Technologies, and Applications, Springer International Edition, 2007.



Software's Required

- ✓ Eclipse/Netbeans IDE (any version)
- ✓ Visual Studio Code
- √ Wamp/Xamp server
- ✓ Apache Tomcat server-if Eclipse is used
- ✓ Any editor:



- 1. Notepad++
- 2. Atom
- 3. Brackets



- 4.Sublime Text
- 5. Vim
- 6. Webuilder



- 7. Adobe Dreamweaver
- 8. EditPlus















Prerequisites

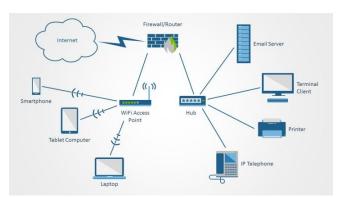
1. Database concepts





2. Any programming language.

3. Basics of networking



Continuous Teacher Assessment (CTA)

CTA activity

Requirement:

Design and development of web applications using the following technologies to solve Institutional/Departmental requirements.

- 1. HTML/XHTML/HTML5
- 2. XML, DTD, XSD
- 3. PHP, JavaScript, Ajax
- 4. MySQL
- 5. CSS

Activity:

- I. Defining problem statement.
- II. Designing of the database for the above requirement.
- III. Unit-wise assignments
- IV. Hosting of web applications using any open source domains.