



# Alagappa University

(A State University Established in 1985)  
Karaikudi- 630 003, Tamilnadu, India.  
www.alagappauniversity.ac.in



## Department of Computer Applications

### VALUE ADDED COURSES

**Course Code: CAVAD7**

**Course Name: Web Programming**

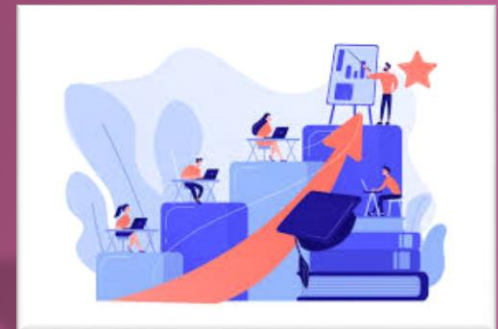
**2023-2024**

**Eligibility: UG in Computer Science**

**Course Duration: 20 hours**

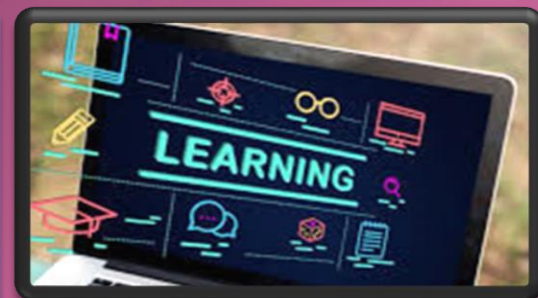
#### COURSE OBJECTIVE:

- To understand the concepts and architecture of the World Wide Web.
- To understand markup languages
- To understand embedded dynamic scripting on client side Internet Programming
- To understand web development techniques on client-side.



#### COURSE OUTCOME:

- To create a basic website using HTML and Cascading Style Sheets.
- To design and implement dynamic web page with validation using JavaScript objects.
- To apply different event handling mechanisms.
- To design front end web page and connect to the back end databases.



#### COURSE CO-ORDINATOR:

**Dr. M.Vanitha**  
Assistant Professor  
Department of Computer Applications  
Alagappa University  
Karaikudi-630 003



**ALAGAPPA UNIVERSITY, KARAİKUDI**  
**DEPARTMENT OF COMPUTER APPLICATIONS**  
**VALUE ADDED COURSES**

<b>Course Code:</b> CAVAD7	<b>Web Programming</b>	<b>20 Hours</b>
<b>Course Objectives:</b>	<b>OBJECTIVES:</b> <ul style="list-style-type: none"> <li>• To understand the concepts and architecture of the World Wide Web.</li> <li>• To understand markup languages</li> <li>• To understand embedded dynamic scripting on client side Internet Programming</li> <li>• To understand web development techniques on client-side.</li> </ul>	
<b>Unit I</b>	<b>Introduction To WWW:</b> Internet Standards – Introduction to WWW – WWW Architecture – SMTP – POP3 – File Transfer Protocol - Overview of HTTP, HTTP request – response — Generation of dynamic web pages.	
<b>Unit II</b>	<b>Markup Language (HTML5):</b> Basics of Html -Syntax and tags of Html-Introduction to HTML5 -Semantic/Structural Elements -HTML5 style Guide and Coding Convention– Html Svg and Canvas – Html API’s - Audio & Video - Drag/Drop - Local Storage - Web socket API– Debugging and validating Html.	
<b>Unit III</b>	<b>Cascading Style Sheet (CSS3):</b> The need for CSS – Basic syntax and structure Inline Styles – Embedding Style Sheets - Linking External Style Sheets - Introduction to CSS3 – Backgrounds - Manipulating text - Margins and Padding - Positioning using CSS - Responsive Web Design - Introduction to LESS/SASS	
<b>Unit IV</b>	<b>Overview Of Javascript:</b> Introduction - Core features - Data types and Variables - Operators, Expressions, and Statements Functions - Objects - Array, Date and Math Related Objects - Document Object Model - Event Handling - Controlling Windows & Frames and Documents - Form validations.	
<b>Unit V</b>	<b>Advanced Features Of Javascript:</b> Browser Management and Media Management – Classes – Constructors – Object-Oriented Techniques in JavaScript – Object constructor and Prototyping - Sub classes and Super classes – Introduction to JSON – JSON Structure –Introduction to jQuery –Introduction to AJAX-Bootstrap - Bootstrap components.	
<b>Course Outcomes:</b>	<ul style="list-style-type: none"> <li>• To create a basic website using HTML and Cascading Style Sheets.</li> <li>• To design and implement dynamic web page with validation using JavaScript objects</li> <li>• To apply different event handling mechanisms.</li> <li>• To design front end web page and connect to the back end databases.</li> </ul>	
<b>REFERENCES:</b> <ol style="list-style-type: none"> <li>1. David Flanagan, “JavaScript: The Definitive Guide, Sixth Edition”, O’Reilly Media, 2011</li> <li>2. Harvey &amp; Paul Deitel&amp; Associates, Harvey Deitel and Abbey Deitel, “Internet and World Wide Web - How To Program”, Fifth Edition, Pearson Education, 2011</li> <li>3. Thomas A. Powell, “HTML &amp; CSS: The Complete Reference”, Fifth Edition, 2010</li> <li>4. Thomas A Powell, Fritz Schneider, “JavaScript: The Complete Reference”, Third Edition, Tata McGraw Hill, 2013</li> <li>5. Thomas A Powell, “Ajax: The Complete Reference”, McGraw Hill, 2008</li> </ol>		

