

## Front End Development

Session No#	Session mode	Session Details	Week -Day	Duration Hrs
1	EL-Async	IU 1: Web Design Concepts <ul style="list-style-type: none"> <li>Website builders, CMS, Web Development Process, Content Strategy, Persona</li> <li>Business Process Design, Information Architecture, Wireframe, Storyboard</li> </ul> IU 2: HTML & CSS <ul style="list-style-type: none"> <li>Markup language (HTML) - Basic Syntax, Formatting content with HTML,</li> <li>Elements in HTML</li> <li>Styling Language (CSS) - Inline, Internal and external CSS, Syntax, Selectors, Cascading, inheritance, and specificity</li> </ul> Complete MCQ	Before Sync session	2
2	FC -Sync	IU 1: Web Design Concepts Familiarization of website design principles and best practices IU 2: HTML & CSS Identify the techniques required to conduct user research and persona creation. Explain Assignment 1	1-1	3
3	AS -Sync	Complete assignment and submit Assignment 1 - Website Design: Develop wireframes and storyboard	1-2	3
4	EL-Async	IU 3: Responsive Design (Bootstrap) <ul style="list-style-type: none"> <li>Responsive Design (Bootstrap) - Containers, Basic grid layout, Rows, Responsive columns</li> </ul> IU 4; JavaScript & jQuery <ul style="list-style-type: none"> <li>Scripting Language (JavaScript &amp; jQuery)</li> </ul> Complete MCQ	Before Sync session	2
5	FC- Sync	IU 3: Responsive Design (Bootstrap) IU 4; JavaScript & jQuery Converting the design to web pages with style Explain assignment 2	2-3	3
6	AS- Sync	Complete the assignment and submit Assignment 2 - Website Development: Plan the content and develop the pages according to the design	2-4	3

7	EL-Async	IU 5: Single Page Application, Testing & Documentation <ul style="list-style-type: none"> <li>Single Page Application - Ajax, XML Http Request, XML Http Response,</li> <li>JSON, XML, AJAX-Server Communication with JSON Functional, Performance &amp; Cross-browser Testing</li> </ul> Complete MCQ	Before Sync session	2
8	FC-Sync	IU 5: Single Page Application, Testing & Documentation Integrating pages with interaction and testing Explain assignment 3	3-5	3
9	AS -Sync	Complete assignment and submit Assignment 3 - Website Development: Add interactions and data entry forms	3-6	3
10	PM-Sync	Explain the project and its tasks <ol style="list-style-type: none"> <li>Conduct UX research and develop a mid-fidelity prototype that aligns with business objectives and user expectations for a multi-platform website.</li> <li>Implement a responsive and interactive front-end interface using a selected framework (e.g., React, Angular) with adherence to accessibility guidelines.</li> </ol>	4-7	3
11	PI-Async	Complete project tasks 1	Before Sync session	4
12	PI-Async	Complete project task 2	Before Sync session	4
13	PM-Sync	Explain the project and its tasks <ol style="list-style-type: none"> <li>Perform performance audits on the developed interface and optimize components for speed, responsiveness, and cross-browser compatibility</li> </ol>	4-8	3
14	PI-Async	Complete project task 3 Prepare Project Report and submit	Before Assessment	2
15	SA-Sync	Summative Assessment (Each learner)	5-9	30 min

EL-E-Learning

FC-Flipped Class

AS-Assignment

PM-Project Mentoring

PI-Project Implementation

SA-Summative Assessment

Sync- Synchronous Session &

Async- Asynchronous Session