Front-end Development

Session No#	Session mode	Session Details	Week -Day	Duration Hrs
1	EL-Async	IU 1: Web Design Concepts • Website builders, CMS, Web Development Process, Content Strategy, Persona • Business Process Design, Information Architecture, Wireframe, Storyboard IU 2: HTML & CSS • Markup language (HTML) - Basic Syntax, Formatting content with HTML, • Elements in HTML • Styling Language (CSS) - Inline, Internal and external CSS, Syntax, Selectors, Cascading, inheritance, and specificity 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	AP-Async	Additional Practice- Complete all the pending works	Before Sync Session	7
5	EL-Async	IU 3: Responsive Design (Bootstrap) • Responsive Design (Bootstrap) - Containers, Basic grid layout, Rows, Responsive columns IU 4; JavaScript & jQuery • Scripting Language (JavaScript & jQuery) Complete MCQ	Before Sync session	2
6	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
7	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

8	AP-Async	Additional Practice- Complete all the pending work	Before Sync Session	7

9	EL-Async	IU 5: Single Page Application, Testing & Documentation • Single Page Application - Ajax, XML Http Request, XML Http Response, • JSON, XML, AJAX-Server Communication with JSON Functional, Performance & Cross-browser Testing Complete MCQ	Before Sync session	2
10	FC-Sync	IU 5: Single Page Application, Testing & Documentation Integrating pages with interaction and testing Explain assignment 3	3-5	3
11	AS -Sync	Complete assignment and submit Assignment 3 - Website Development: Add interactions and data entry forms	3-6	3
12	AP-Async	Additional Practice- Complete all the pending work	Before Sync Session	6
13	PM-Sync	Explain the project and its tasks 1. Formulate requirements specification with function, nonfunctional requirements. 2. Develop Information Architecture, Wireframe, and Storyboard 3. Develop Website to fulfil the requirements. 4. Plan UI effectiveness metrics and testing methods with test cases. 5. Enhance the website based on UI effectiveness metrics measured and test results.	4-7	3
14	PI-Async	Complete project tasks 1 -3	Before Sync session	4
15	PI-Async	Complete project task 4-5	Before Sync session	4
16	PM-Sync	Project Mentoring to complete the project tasks	4-8	3
17	PI-Async	Prepare Project Report and submit	Before Assessment	2
18	SA-Sync	Summative Assessment (Each learner)	5-9	30 min

EL-E-Learning
FC-Flipped Class
AS-Assignment
PM-Project Mentoring
PI-Project Implementation   AP-
Additional Practice
SA-Summative Assessment
Sync- Synchronous Sesson
Async- Asynchronous Session