

ABOUT THE COURSE:

TOTAL DURATION:	45 HRS
MODE OF DELIVERY	Virtual Instructor led by Industry Experts + Physical Session conducted by FDP faculty
TRAINER TO STUDENT RATIO:	1:60
TOTAL MARKS:	75

TABLE 1	
OVERALL COURSE OBJECTIVE:	<ul style="list-style-type: none"> • This program is designed to develop learners' capabilities by enabling them to apply essential skills and analyze foundational knowledge required for a successful career in Front-End Development. • Learners will evaluate key concepts, tools, and technologies in modern web development, applying them as the foundational step toward becoming proficient Front-End Developers. • Students will analyze and apply core concepts of HTML, CSS, and JavaScript, while also gaining the ability to evaluate basic cloud computing principles within the context of front-end development. • Learners will create and deploy responsive web pages by utilizing version control systems such as Git and GitHub, demonstrating practical implementation of front-end projects.
LEARNING OUTCOME:	<ol style="list-style-type: none"> 1. Implement web development basics and its relevance to personal profile webpages. 2. Use HTML to create structured webpages with headings, paragraphs, and lists. 3. Apply CSS styles for webpage enhancement 4. Develop responsive web design skills to ensure the webpage looks good on various devices.

	<ol style="list-style-type: none"> 5. Implement JavaScript to add interactivity and dynamic content to the webpage. 6. Manipulate the DOM with JavaScript for dynamic updates to webpage content. 7. Explore web hosting options and deploy the webpage online for public access. 8. Customize the webpage with advanced CSS techniques, animations, and transitions. 9. Integrate third-party libraries or frameworks for added functionality and design options. 10. Create a functional personal profile webpage as a final project, demonstrating acquired skills.
--	--

TABLE 2: MODULE-WISE COURSE CONTENT AND OUTCOME

SL.NO	MODULE NAME	MODULE CONTENT	MODULE LEARNING OUTCOME	DURATI ON (HRS)
Week 1	Program Introduction	<ol style="list-style-type: none"> 1. Introduction to Skills Build Program (Orientation and Registration in Portal) 2. Introduction to Coding and Cloud Computing (Explaining the Syllabus and Future Program Instruction) 	<ol style="list-style-type: none"> 1. Learners will analyze the structure and goals of the Skills Build Program and successfully complete the registration process through the learning portal. 2. Learners will evaluate foundational coding and cloud computing concepts, and interpret the program syllabus to set clear 	2 HRS

			expectations for future modules.	
Week 2	Introduction to HTML	<ol style="list-style-type: none"> 1. Understanding of WEB. 2. Introduction to HTML- Fundamentals of Required tools and technologies like Visual Studio Code, notepad++, Eclipse for frontend web application development. 3. HTML- Elements, Tags, Components and Structures, Formatting 	<ol style="list-style-type: none"> 3. Learners will explore and analyze the foundational elements of the web, including its architecture, components, and functional layers 4. Learners will demonstrate proficiency in using essential tools like Visual Studio Code, Notepad++, and Eclipse to build and manage HTML-based frontend applications. 	2 HRS
Week 3	HTML Web Applications	<ol style="list-style-type: none"> 1. Web Application: List, Table, Form, Media, graphics, Semantic tags 2. Link HTML 5 APIs: Geolocation, Web Storage 	<ol style="list-style-type: none"> 5. Design and construct well-structured and accessible web applications by effectively utilizing lists, tables, forms, media, graphics, and semantic tags to ensure clarity, 	2 HRS

			<p>organization, and usability.</p> <p>6. Integrate and evaluate the use of advanced HTML5 APIs, such as Geolocation and Web Storage, to enhance interactivity and functionality in dynamic web applications.</p>	
MileStone-1	Students should share the Screenshot of their HTML page (Self- Paced)			4 HRS
Week 4	Introduction to CSS	<p>1. Introduction to CSS</p> <p>2. CSS syntax and embedding, CSS selector</p>	<p>7. Analyze and evaluate the core principles of CSS to understand its role in enhancing the visual structure and presentation of web pages.</p> <p>8. Develop and implement effective CSS styling by writing syntactically correct rules, utilizing appropriate embedding techniques,</p>	2 HRS

			and applying various selectors to achieve desired design outcomes.	
Week 5	CSS Properties	<p>1. CSS properties: Colour, Background, Text, Font, Position, List style, table</p> <p>2. CSS Properties: pseudo-element, Transformations, Animation, and Media Queries, grid, flex</p>	<p>9. Apply and evaluate core CSS properties—such as color, background, text, font, position, list style, and table—to design visually engaging and logically structured web pages.</p> <p>10. Design and construct responsive and interactive web layouts by leveraging advanced CSS techniques, including pseudo-elements, transformations, animations, media queries, grid, and flexbox, to optimize user experiences</p>	2 HRS

			across various devices.	
MileStone-2	Students should share the Screenshot of their HTML & CSS page (Self- Paced)			4 HRS
Week 6	Introduction of JS	<p>1. Java Script: Types of JS, JS console, Dialog box, Operators and Functions</p> <p>2. Java Script: Control Structures, Document Object Model (DOM)</p>	<p>11. Analyze and apply JavaScript fundamentals—including data types, console operations, dialog boxes, operators, and functions—to build dynamic and functional web applications.</p> <p>12. Design and implement interactive and responsive user interfaces by utilizing JavaScript control structures and manipulating the Document Object Model (DOM) effectively.</p>	2 HRS
Week 7	Applications of JS	<p>1. Java Script: Objects and Nodes, Handling DOM using JavaScript</p> <p>2. Java Script: JavaScript</p>	13. Create and manage dynamic web interactions by manipulating the Document	2 HRS

		Events, Animation, Cookies & session	<p>Object Model (DOM) using JavaScript objects and nodes to modify and control page content in real-time.</p> <p>14. Design and implement enhanced user experiences by effectively managing JavaScript events, creating animations, and handling cookies and sessions to optimize web application functionality.</p>	
Week 8	Introduction of Cloud	<p>1. Introduction of Cloud Computing-(Git & GitHub)</p> <p>2. Deploying the Web page in GIT & GitHub</p>	<p>15. Analyze and evaluate the core concepts of cloud computing, with a focus on version control using Git and collaborative development through GitHub.</p> <p>1. Apply and demonstrate the deployment of web pages by</p>	2 HRS

			utilizing Git and GitHub platforms to manage, track, and publish web projects effectively.	
MileStone-3	Students should share the Screenshot of their Deployment Model (Self- Paced)			4 HRS

TABLE 3: OVERALL COURSE LEARNING OUTCOME ASSESSMENT CRITERIA AND USECASES			
LEARNING OUTCOME	ASSESSMENT CRITERIA	PERFORMANCE CRITERIA	USE CASE
Web development basics and its relevance to personal profile webpages.	Explain the structure of the web and its role in personal webpage creation.	Demonstrate understanding of web components, including structure, tools, and technologies.	Use Case: Building a Personal Blog – A user creates a basic blog explaining their background and interests.
Apply HTML to create structured webpages with headings, paragraphs, and lists.	Create HTML documents with headings, paragraphs, lists, and other structural elements.	Develop error-free and semantically correct HTML pages, ensuring structured and accessible content.	Use Case: Creating a Resume Page – Build a webpage to display a well-structured resume using headings and lists.
Apply CSS styles for webpage enhancement.	Implement CSS to style webpages, including text, layout, and design properties.	Demonstrate the ability to enhance webpage presentation with effective CSS rules and advanced selectors.	Use Case: Styling a Portfolio Page – Customize fonts, colors, and layout to make a portfolio visually appealing.
Develop responsive web design skills to ensure the webpage looks	Use media queries and responsive layouts (grid and flexbox) for	Build dynamic and visually responsive web designs compatible across	Use Case: Building a Mobile-Friendly Page – Ensure a profile page works seamlessly on

good on various devices.	different screen sizes.	devices and resolutions.	phones, tablets, and PCs.
Learn JavaScript to add interactivity and dynamic content to the webpage.	Write JavaScript code for basic interactivity, including functions, control structures, and events.	Apply JavaScript to add interactive features, ensuring dynamic content and user engagement.	Use Case: Interactive Contact Form – Add validation and interactivity to a contact form for user engagement.
Manipulate the DOM with JavaScript for dynamic updates to webpage content.	Use JavaScript to manipulate the DOM elements dynamically.	Demonstrate DOM manipulation to update webpage content based on user input or interaction.	Use Case: Dynamic Content Update– Update a user’s project gallery dynamically based on clicks or filters.
Explore web hosting options and deploy the webpage online for public access.	Successfully deploy a personal webpage on platforms like GitHub using Git version control.	Host and share a fully functional webpage, verifying accessibility and correctness in deployment.	Use Case: Deploying a Personal Site – Upload a personal website to GitHub for professional visibility.
Customize the webpage with advanced CSS techniques, animations, and transitions.	Create CSS animations, transitions, and advanced styling techniques for visual appeal.	Demonstrate proficiency in advanced CSS, creating engaging animations and ensuring smooth transitions.	Use Case: Animating Portfolio Sections – Use transitions to make portfolio sections smoothly appear on scroll.
Integrate third-party libraries or frameworks for added functionality and design options.	Use external libraries (e.g., Bootstrap) to enhance the webpage design and add pre-built features.	Incorporate third-party libraries seamlessly into the project to improve functionality and design.	Use Case: Using Bootstrap for Quick Design – Integrate Bootstrap to create a professional layout with less effort.
Create a functional personal profile webpage as a final project, demonstrating acquired skills.	Develop and showcase a complete personal profile webpage incorporating HTML, CSS, JavaScript, and hosting.	Demonstrate integration of learned skills into a cohesive final project, meeting functional, responsive, and design standards.	Use Case: Showcasing a Personal Profile – Develop a comprehensive webpage summarizing skills, projects, and bio.

TABLE 4: LIST OF FINAL PROJECTS (PROJECTS THAT COMPREHENSIVELY COVER ALL THE LEARNING OUTCOME)	
SL.NO	FINAL PROJECT
1	Completion of the Learning Plan
2	Submission of Student Digital Portfolio using GitHub

TABLE 5: COURSE ASSESSMENT RUBRICS (TOTAL MARKS: 75)				
ASSESSMENT CRITERIA	DESCRIBE THE CRITERIA OF THE BELOW CATEGORY PERFORMANCE			TOTAL MARKS
	FAIR	GOOD	EXCELLENT	
1	33	50	75	75

Category	Assessment Criteria	Performance Levels	Weightage (Marks)
Practical Skills Proficiency	Demonstrates ability to perform job-specific tasks effectively, using relevant tools, techniques, or methodologies	Fair, Good, Excellent	20
Technical Knowledge Application	Applies theoretical concepts to practical scenarios with accuracy and relevance	Fair, Good, Excellent	15
Project Execution	Completes assigned projects or use cases demonstrating innovation, thoroughness, and skill application relevant to industry standards.	Fair, Good, Excellent	30
Communication and Reporting	Clearly presents findings, solutions, or project outcomes using professional communication and documentation standards (e.g., reports, presentations).	Fair, Good, Excellent	10