



Web Development

Course Synopsis: This course is designed to start you on a path toward future studies in web development and design, no matter how little experience or technical knowledge you currently have.

Goals:

- structure and functionality of the world wide web,
- create dynamic web pages using a combination of HTML, CSS, and JavaScript

Unit	Topic	Lecturer	Assignment	Presentation	Lab
Unit 1	An Overview of the internet and the web <ul style="list-style-type: none">● Evolution, Advantage and Disadvantage of Internet● Intranet , Extranet and Intranet● DNS and IP● URL● Internet Services● WWW● Web Pages Static and Dynamic Web Pages● Web Browser● Search Engine	4			
Unit 2	Website Development Process <ul style="list-style-type: none">● Introduction● Gathering Information● Planning Design	5			

	<ul style="list-style-type: none"> ● Content Writing and Assembly ● Coding ● Testing, Review, and Launch ● Maintenance 				
Unit 3	Website Structure Design <ul style="list-style-type: none"> ● Website Structure ● Why Does Your Website's Structure Matter? ● Structuring Your Website ● Plan Before You Do, ● Symmetry Is Key ● Pay Attention to Page Slugs ● Make Your Menu Front Center ● Keep It Simple 	3			
Unit 4	Website Design Principle <ul style="list-style-type: none"> ● Purpose Communication ● Typefaces ● Colours ● Images ● Navigation ● Grid based layouts ● Load time ● Mobile friendly 	3			2
Unit 5	Webpage Layout <ul style="list-style-type: none"> ● Introduction ● The Zig-Zag Layout ● The F Layout ● Full Screen Photo ● One-Column Layout ● Featured Image Layout ● Asymmetrical Layout ● Split Screen Layout ● Headline and Thumbnails ● Gallery Layout Modular ● Card Layout / Block Layout ● Magazine Layout ● Single Page Layout ● Radial Symmetry Layout 	3			3
Unit 6	Color and Graphics on the web <ul style="list-style-type: none"> ● Use of color in web ● Use of different fonts in web ● Use of Graphics element ● Image Tag 	3			3

Unit 7	Audio and Video on web <ul style="list-style-type: none"> ● Use of Audio and Video in WEB ● implementation of Audio and video tags with its attributes 	3			2
Unit 8	User Interface Design <ul style="list-style-type: none"> ● Introduction to UI ● Introduction to UX ● Different tools for wireframe design Creating UI from wireframe 	3			3
Unit 9	Style Sheet and Controlling Page <ul style="list-style-type: none"> ● Using inline style in HTML ● CSS and its uses ● CSS for responsive design 	3			3
Unit 10	Form Design <ul style="list-style-type: none"> ● Form in Web ● INPUT tag of HTML and its uses in form ● Type of input field in form 	3			3
Unit 11	Website Accessibility <ul style="list-style-type: none"> ● Accessibility in Context ● What is Web Accessibility ● Accessibility is Important for Individuals, Businesses, ● Society Making the Web ● Accessible Evaluation ● Accessibility Examples 	3			
Unit 12	Website Testing Introduction <ul style="list-style-type: none"> ● Functionality Testing ● Usability testing ● Interface testing ● Compatibility testing ● Performance testing ● Security Testing ● Cross Browser Testing 	2			
Unit 13	Website Usability Evaluation <ul style="list-style-type: none"> ● Introduction ● FOCUS GROUPS CARD ● SORTING FIRST CLICK ● TESTING RECRUITING 	2			

	<ul style="list-style-type: none">• PARTICIPANTS				
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Main references supporting the course:

Building Websites All-in-One for Dummies by David Karlins, Doug Sahlin 2019