Web Design (160$ - 90h)

Location: Korea Software HRD Center

Email: info.kshrd@gmail.com

Phone: 023 99 13 14 / 085 52 26 90 / 077 45 99 47

Description:
Web design encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; interface design; authoring, including standardized code and proprietary software; user experience design; and search engine optimization.

Goal
To develop a static website

Prerequisite
- Creativity
- Basic Photoshop (Optional)
- Basic Computer knowledge
- Computer programming experiences

What do we learn?
- HTML5
- CSS3 and Flexbox
- Bootstrap 4
- MDBootstrap
- JavaScript
- jQuery
- JSON
- Introduction to Web Service API
- Ajax/jQuery Ajax

Result
- Create attractive and responsive website.
- Creating form validation using JavaScript and jQuery.
- Request and manipulating data (CRUD) from web service to display on a webpage.

Course curriculum

No	Topic	Objective	Hour
01	**HTML Basic** - Introduction - Editors - Basic - Elements - Attributes - Headings - Paragraphs	**Understanding:** - What is HTML? - Why using HTML? - What is HTML tag and Elements? - How to run HTML? - What is HTML attribute? - How to use it? - How to write Heading and Paragraph	2h
02	- Style - Formatting - Comments - Images - Tables	- Setting the style of an HTML element defining text with a special meaning - How to use Quotation and Citation Elements - How to display text as Computer code - How to write and use comments in HTML - How to use image - How to create a table using HTML?	2h
03	- CSS(Inline) - Links - Lists - Layout - Entities - Symbols - Charset	- Styling HTML with Inline CSS - Why using link? - How many kind of HTML lists? - Why using list? - What is block element? - What is inline element? - What is div? - How to define layout in HTML - What are HTML entities and symbols? - What is charset?	3h
04	- Iframe - Color Names, Values, Groups, Shades - Forms - Form Elements	- How to use iframe - Understand about using color in HTML - How to create form using HTML	2h
05	- Input Types - Input Attributes	- Understand about Input type and Elements	2h

	- HTML5 New element - HTML5 Semantics	- Know about new HTML5 element - How to order semantic layout using HTML5 tags	
06	**CSS:** - CSS Introduction - Syntax - How to - Backgrounds - Box Model - Borders - Margins - Padding - Outline	**Understanding:** - What is CSS? - How to insert CSS in HTML? - How to set style background - Understanding about Box Model - How to use border - How to set Margin - How to set Padding - Understand about Outline	3h
07	- Display - Position	**Property** - How to use display - How to make inline-block and vice versa - How to use position	3h
08	- Text - Font - Height/Width - Links - Lists - Tables - Float - Align	- How to customize how the text look - How to set the width and height of an element - How to set style for text and font property - How to set style for links - How to set style for lists - How to set style for tables - Understand about Float - How to align the element	3h
09	- Pseudo-class - Pseudo-element - Navigation Bar - Dropdowns	to use pseudo-class and element - How to make Navigation - How to make dropdown menu	2h
10	**Flexbox** - Basic & Terminology - Container - Display - Flex-direction - Flex-wrap - Flex-flow - Justify-content - Align-items - Align-content	- What is flexbox? - What is the terminology of flexbox? - What is a flexbox container? - What are flex direction, flex-wrap, flex-flow, justify content, align- items, align-content and how to use them?	2h

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11	- Items - Order - Flex-grow - Flex-shrink - Flex-basis - Flex - Align-self - Responsive	- What are flexbox Items? - How to use order to rearrange items? - What is flex-grow, flex-shrink, flex-basis, flex, align-self and how to use it? - How to create responsive web using flexbox?	2h
12	**Bootstrap and MDB** - Introduction - Grid System - Components	- How to use both front-end framework? - What is **Bootstrap** and **MDB** grid? - Understand about grid classes and when to use - Understanding how to use UI components	3h
13	- Components (cont.) - Front-end framework Concept	- Customize components - Understand how to use customize **Bootstrap** template themes - Understand the concept of Front-end Framework.	3h
14	**JavaScript** - Introduction - Where to - Output - Syntax - Statements - Variables	**Understanding:** - What is JavaScript? - Understand about JavaScript syntax and statement - How to comment in JavaScript	2h
15	- Function - Operators - Arithmetic - Assignment - Data Types - Objects - Events	- Understand how to create and use function - Understand about variable, operators, and arithmetic operator - Understand about assignment, data types - Understand about Events and where to use it	3h
16	- String - String Method - Numbers - Numbers Method - Math	- Understand about String object - How and when to use String Method Understand about Number and Math object - How and when to use Number and Math Method	2h

17	- Dates - Date Formats - Date Method	- Understand about Date object - How to format date - How to use Date method	2h
18	- Array - Array Methods - Boolean - Comparisons - Conditions	- Understand about Array - How to use array method - Understand about - Boolean, Comparisons and Condition statements	3h
19	- Switch - Loop for - Loop while - Break	- Using Loop in JavaScript	3h
20	- Type Conversion - RegExp - Form Validation - Error Handling	- How to convert type in JavaScript - Understand about Regular Expression - How to use Error handling in JavaScript - Understand about Reserved words - How to make your JavaScript code run smoothly - How to validate form input	3h
21	**JS Object** - Object definition - Object Properties - Object Methods	- Understand about object properties and object method in JavaScript	2h
22	**JS HTML DOM** - Intro - Methods - Document - Elements - HTML - CSS	- How to access and change all elements of an HTML document using JS? - What are HTML DOM methods and properties? - How to find HTML element - How to change HTML Style	3h
24	- Events - Event Listener	- How to use event with HTML DOM - How to add an event to an element	2h
25	- Navigation - Nodes - Node list	- What are nodes? - Why using nodes? - How to use nodes?	3h
26	**JS Browser BOM** - Location - Popup Alert - Popup Message (toastr and sweetalert) - Timing - **Cookies**	- How many kinds of popup alert? - What is toastr and sweetalert message? - How to use JavaScript timing event? - What is the cookies?	3h

27	**jQuery:** - Intro - Get Started - Syntax - Selectors - Event	**Understanding:** - What is jQuery? - Why using jQuery? - How to add jQuery to your web pages? - What is the syntax of jQuery? - How to select an element in jQuery? - What is the syntax of jQuery event?	3h
28	**jQuery Effect** - Hide/ Show - Fade - Slide - Animate - Stop() - Callback - Chaining	- How to use jQuery effect? - How to do animation using jQuery? - Why using stop function? - What is call back function?	3h
29	**jQuery HTML** - Get - Set - Add - Remove - CSS Classes	- How to set or get HTML code, text, or value? - How to add content using jQuery? - How to modify and remove content? - How to change CSS using jQuery?	3h
30	**jQuery Traversing** - Traversing - Ancestor - Descendants - Siblings - Filtering	- What does traversing mean in jQuery? - What are ancestors in jQuery? - What are decedent in jQuery? - What are siblings in jQuery? - How to filter selectors in jQuery?	3h
31	**JSON:** - JSON Intro - JSON Syntax - JSON vs XML - JSON Data Types - JSON Objects - JSON Arrays - JSON Parse - JSON Stringify **Web Service:** - Introduce to **API** - How to use - API Process	**Understanding:** - Introduction to JSON - What is JSON Syntax? - Compare between JSON and XML - Understand about JSON Data Types - Understand about JSON Objects - What is Web service or api? - How to use Web Service - Understand about Web service process	3h
32	**AJAX:** - AJAX Intro	**Understanding:** - What is AJAX?	3h

	- AJAX Request - AJAX Response	- Why using AJAX?	
33	**Article Management Mini Project:** - To fetch articles - To view detail article - To fetch articles by category - To search articles - To update and delete article - To insert article	- How to add jQuery AJAX to your web pages? - What is the syntax of jQuery AJAX? - What are jQuery AJAX methods? - How to use jQuery AJAX POST, PUT, DELETE, GET	9h
34	**Project:** - Article Management (static)	**Understanding:** - How to build a template for web application or website? - How to work with project? - Understanding with the layout of website.	1 Month
35	**Total:**	90 Hours	