

Lecture - 1

Topic	Time	Videos	In-Class Task / Assignment / Activity
Warm-Up	3 Mins		
How the internet works	6 mins	Section 1 - Video 5	
How websites and browsers work	6 mins	Sec 1, Vid 6	
What is HTML, Mark up Languages, general syntax, Heading tags, Line Break	30 mins	Vid 12	
Documentation, Importance of googling things		Vid 12	
Create a code sandbox		Vid 12	In-class activity.
Anatomy of HTML		Vid 13	
Self Closing tags, HR tags, HTML Attributes, Comments		Vid 14	
Dev tools		Vid 14	In-class activity
Internet Archive Wayback Machine		Vid 14	In-class activity
Watch the videos and complete the installation of relevant editors.		Vid 8	Assignment

Lecture 2

Topics	Time	Videos	In-Class Task / Assignment / Activity
HTML Boilerplate, Creating a project in the editor, Boiler Plate HTML, Versions of HTML, Head, body, meta tags and attributes, title tag, Encoding (UTF - 8)	17 Mins	Vid 15	
Ask the student to add H1 heading.			In-class task
Indentation, Paragraph tag, italic tag, em, strong, hr tags	11 Mins	Vid 16	
Ask the student to search the documentation, identify and use italic tag			In-class task
HTML List tags, image tags, link and anchor tags	30 Mins	Vids 17,18,19	

Lecture 3

Topics	Time	Videos	In-Class Task / Assignment / Activity
HTML Tables	60 Minutes	Vid 21	
Tables for layouts		Vid 22	
HTML Tables challenge		Vid 23	In-Class Task
HTML Forms		Vid 26	
Forms in practice		Vid 27	In-Class Task / Assignment
QUIZ			

Lecture 4

Topics	Time	Videos	In-Class Task / Assignment / Activity
What is CSS, CSS Tags		Vid 31	
Build upon the personal page and make it beautiful		Vid 31	In-Class Task
Style attribute, Inline CSS, Background colour, shortcomings of inline CSS		Vid 32	
Style tag, attributes, CSS tags, height, width, pixels, %,		Vid 34	
External CSS and how to debug CSS		Vid 35	
Exercise on border properties,(Sean)		Vid 34	In-Class Task
QUIZ			

Lecture 5

Topics	Time	Videos	In-Class Task / Assignment / Activity
Anatomy of CSS syntax	60 Minutes	Vid 36	
CSS Selectors		Vid 37	
Classes vs IDs		Vid 38	
Favicons		Vid 42	
Build on the previous project			In-Class Task
HTML divs		Vid 43	
CSS QUIZ			

Lecture 6

Topics	Time	Videos	In-Class Task / Assignment / Activity
Box Model	60 Minutes	Vid 44	
CSS Display Property		Vid 45	
CSS Static and relative positioning		Vid 47	
Build on the Previous Project			In-Class Task

Lecture 7

Topics	Time	Videos	In-Class Task / Assignment / Activity
Absolute positioning, Centering elements in CSS,	60 Minutes	Vids 48, 49	
Typography, CSS Sizing,		Vids 51, 53	
Font challenges - Change, colour, font, height		Vids 54,55,56	In-Class Task
CSS Float and Clear		Vid 58	
CSS challenge		Vid 59	Assignment

Lecture 8

Topics	Time	Videos	In-Class Task / Assignment / Activity
What is JS, Importance of JS	5 Mins	Vid 101	
Open inspect, show console and show the importance of JS, disable JS in settings, Alert	15 Mins	Vid 102	
Data types, type of function, variables	15 Mins	Vids 103, 104	
JS Variables exercise	15 Mins	Vid 105	In-Class Task
Naming Conventions	10 Mins	Vid 107	
JS Variable Naming Quiz			

Lecture 9

Topics	Time	Videos	In-Class Task / Assignment / Activity
String concatenation, string length, slicing extracting parts of a string, retrieving the number of characters	18 Mins	Vids 108,109,110	
Changing case in the text	12 Mins	Vid 111	In-Class Task
Arithmetic Operators, PEMDAS	15 Mins	Vid 112, 113	
Dog age calculator			In-class task
Increment and decrement operators	5 Mins	Vid 114	

Lecture 10

Topics	Time	Videos	In-Class Task / Assignment / Activity
Functions, get milk example, creating and calling functions	10 Mins	Vid 115	
Karen robot example	20 Mins	Vid 116	In- Class task
Functions, parameters and arguments, outputs and return values	30 Mins	Vid 119, 121	
BMI calculator		Vid 122	Assignment

JS FUNCTIONS QUIZ

Lecture 11

Topics	Time	Videos	In-Class Task / Assignment / Activity
Random Function, Math Library	10 Mins	Vid 125	
Love Calculator			In-Class Task
If-else, equality and comparators, combining comparators	15 Mins	Vid 126, 127	
BMI Advanced	8 Mins		
Arrays, Adding elements to array, intermediate array techniques	25 Mins		
Leap Year Challenge			Assignment

Lecture 12

Topics	Time	Videos	In-Class Task / Assignment / Activity
Control statements - While loop, for loop	15 Mins	Vid 134, 136	
Fibonacci Challenge	10 Mins	Vid 137	In Cass task
Adding JS to websites	10 Mins	Vid 140	
DOM, Inner HTML, Query Selector,	25 Mins	Vid 141	

Properties, methods			
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Lecture 13

Topics	Time	Videos	In-Class Task / Assignment / Activity
Selecting HTML elements with JS	20 Mins	Vid 143	
Activities on Selecting elements			In-Class Task
Manipulating and changing styles of HTML elements with JS, Query selectors	7 Mins	Vid 144	
Text manipulation, text content property, manipulating HTML attributes	7 Mins	Vid 146, 147	
Event Listeners, Add event listener, Event listener	20 Mins	Vid 162	
Activities on Event Listeners	5 Mins		In-Class Task

Lecture 14

Topics	Time	Videos	In-Class Task / Assignment / Activity
Seperation of concerns, class list property	5 Mins	Vid 145	
Higher Order functions and passing functions as arguments	20 Mins	Vid 163	
Play sounds, audio elements	10 Mins	Vid 165	In-Class Task
A deeper understanding of JS objects, constructors	20 Mins	Vid 166	
Switch, methods and dot notation	10 Mins	Vid 167, 168	

Lecture 15

Topics	Time	Videos	In-Class Task / Assignment / Activity
Keyboard event listeners	10 Mins	Vid 170	
Understanding callbacks and events	15 Mins	Vid 171	
What is jQuery, incorporating jQuery	15 Mins	Vid 175, 176	
Minification, Selecting elements, manipulation styles, text, attributes	15 Mins	Vids 177,178,179,180,181	
Manipulation Activities	5 Mins		In-Class Task

Lecture 16

Topics	Time	Videos	In-Class Task / Assignment / Activity
Adding Event listeners with jQuery	10 Mins	Vid 182	
Adding and removing elements with jQuery	5 Mins	Vid 183	
Website Animations with jQuery	10 Mins	Vid 184	