



Introduction

to

Web Development

Syllabus

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Syllabus

Overview

The web development industry offers individuals and companies alike a way to communicate information. In business, the web provides ways to advertise products and services to worldwide audiences using multimedia and immersive technology.

In this course, you will learn how to design and develop web pages and sites, which form the presentational backbone of the web. To do this, you will learn about different types of content in the web and develop the skills necessary to create and style web pages.

The course will teach you the de-facto web languages — HTML and CSS, using a modern web development environment called JetBrains WebStorm.

Objectives

Students attending the course will:

1. Learn about the web and how it works.
2. Develop the skills needed to create and style basic web pages.
3. Create a stepping-stone for progressing in more advanced web development.

Assessment

Assessment for this course will involve a coursework assignment, submitted at the end of the course.

Prerequisites

The course requires basic web browsing experience, such as accessing a page on the web, refreshing, moving backwards and forwards in history and so on. No other prior knowledge is required.

Required resources

You will need a mid-range computer (preferably running Windows 7 or later) with an internet connection for downloading the required programming software.

Syllabus

Session	Title	Material
1	Introduction to course and Visual Studio Code	Course logistics, VSCode features and usage, the world wide web, creating a basic page
2	Introduction to HTML	Tags, elements, HTML specification, basic text formatting, comments
3	HTML basic elements	Headings, paragraphs, links & anchors, images
4	IDs and classes, Introduction to CSS	Classes and IDs, Selectors, rules, declarations, etc., changing color, background-color, display, font properties.
5	Semantic elements	Divisions, headers, main, section, footers, etc.
6	Further CSS	Additional CSS properties and selectors, pseudo-classes.
7	HTML forms	Forms and input elements
8	Input validation	Input attributes and input validation using HTML
9	Tables & lists	Tables, ordered & unordered lists
10	HTML5 multimedia	Images, video, audio, embedding YouTube videos

Progression

Attendees of this course could ***potentially*** progress or branch out to several other courses:

- Learn JavaScript (branch)
- Learn Bootstrap (branch)
- Learn JQuery (branch)
- Dynamic web pages using PHP (branch)
- Web development (direct progression)

FOR MORE INFORMATION:



+357 99801631



info@estudyquals.com



www.estudyquals.com

