HTML

Section 1: Coding Basics

Intro to HTML Syntax

The HTML, head, title, & body tags

Headings, paragraphs, & lists

The strong & em tags

The doctype

The meta tag & the Unicode character set

Coding Links: Absolute & Relative URLs

Anchor tags & hrefs

Linking to other websites

Linking to pages within a website

Opening a link in a new browser window/tab

Adding Images

The break tag

The image tag & source attribute

Using the width, height, & alt attributes

Using horizontal rules

Intro to Cascading Style Sheets (CSS)

The style tag

Tag selectors

The font-size, font-family, color, & line-height properties

Hexadecimal color codes

CSS

CSS Class Selectors

The class attribute

CSS class selectors

The span tag

CSS opacity

Div Tags, ID Selectors, & Basic Page Formatting

Dividing up content with the div tag
Assigning IDs to divs
Setting width & max-width
CSS background-color
Adding padding inside a div

HTML5 Semantic Elements & Validating HTML

The outline algorithm
The header, nav, aside, & footer elements
Understanding articles & sections
The main element
The figure & figurecaption elements
Checking for errors: validating your code

Bootstrap

Bootstrap Grid System

Understanding the 12-Column Grid
Breakpoints and Responsive Design
Nested Columns and Offsets

Typography and Utility Classes

Headers and Text Formatting
Text Alignment and Display Headings
Using Utility Classes for Margins, Padding, and Display

Core Components

Buttons and Button Groups
Forms and Input Groups
Navbars and Responsive Menus
Cards, Lists, and Containers

Layouts and Flexbox

Flexbox Layout Utilities
Aligning and Justifying Content
Responsive Utilities for Flexbox

Bootstrap Icons

Using Bootstrap Icons
Installing and Integrating Icons

JavaScript Components

Modals and Popups
Tooltips and Popovers
Collapse and Accordion
Dropdowns and Carousels

Customizing Bootstrap

Introduction to Sass Customization
Overriding Bootstrap Variables
Creating Custom Bootstrap Builds

Responsive Media Queries

Implementing Media Queries in Bootstrap
Creating Responsive Images and Tables

JavaScript

1. General Overview of JavaScript

What is JavaScript
JavaScript History
Relation Between JavaScript and ECMAScript
Versions of JavaScript

2. Syntax, Variables, Values, Data Types

Syntax Review
Keywords and Reserved Words
Variable Declaration
Variable Scope
Block Scope

3. Data Types

Primitive Values
Reference Values
Type Conversion

4. Expressions and Operators

Expressions (Arithmetic, Relational, Logical, Assignment, and Others)
Operators Overview

5. Control Structures

Flow Control and Conditionals
Loops and Iteration
Jumps

6. Error Handling

Throwing Errors
Error Handling

7. Numbers

Number Literals
Number Object
Number Methods
Math Object
Date Object
Working with Numbers

8. Strings

> String Literals
> String Object
> String Methods
> Working with Strings

9. Arrays

> Creating and Populating Arrays
> Array Methods
> Working with Arrays