

Module: 1

Static Website Design

➤ Software Development Fundamentals

- ▶ Importance of Frontend
- ▶ Fundamentals
 - Syntax
 - Debugging
 - Tweaking Code

➤ HTML Basics

- ▶ Getting Started
- ▶ HTML Elements
- ▶ HTML Headings
- ▶ HTML Paragraphs
- ▶ HTML Button
- ▶ HTML Attributes
- ▶ HTML Images
- ▶ HTML Hyperlinks
- ▶ HTML Containers
- ▶ HTML Lists

➤ CSS Basics

- ▶ CSS Rulesets
- ▶ CSS Properties
- ▶ CSS Colours
- ▶ CSS Units
- ▶ CSS Box Model
- ▶ CSS Margins
- ▶ CSS Paddings
- ▶ CSS Borders



➤ Bootstrap Components

- ▶ Carousel
- ▶ Embedding Videos

Module: 2

Responsive Website Design

► Intermediate CSS

- Block vs inline elements
- CSS Selectors
 - Class Selector
 - Id Selector
 - Type Selector
- CSS Specificity
- CSS Inheritance
- CSS Cascading

- Navbar
- Buttons
- Colors

► Bootstrap

- Bootstrap Grid System
 - Container
 - Row
 - Column
- Bootstrap Utilities
 - Display Utilities
 - Flex Utilities
 - Sizing Utilities
 - Spacing Utilities



Module: 2

Responsive Website Design

➤ CSS Lay outing

- ▶ Display
- ▶ Flex-direction
- ▶ Justify-content
- ▶ Align-items
- ▶ Flex-wrap
- ▶ Flex- flow
- ▶ Align-content
- ▶ Align-self
- ▶ Flex-grow
- ▶ Flex-shrink
- ▶ Order

- Sizing Elements
- Overflow
- Box Sizing

- ▶ Content Box
- ▶ Border Box

➤ Tables

➤ CSS Media Queries

- ▶ Media Query
- ▶ Media Types
- ▶ Media Features

- Width, min-width, max-width
- Height, min-height, max-height
- Orientation

➤ Combining Multiple Media Features in a single Media Query

- Logical Operators (and)
- Logical Operators (not)
- Logical Operators (,)



Module: 2

Dynamic Web Applications

➤ Introduction to JavaScript

- ▶ Data Types
- ▶ Variables
- ▶ Basic Operators
- ▶ Conditionals
- ▶ Loops
- ▶ Functions
- ▶ Arrays
- ▶ Objects
- ▶ Control Flow
- ▶ Comments
- ▶ Math Functions

➤ DOM Manipulation

- ▶ The JavaScript Console
- ▶ Introduction to the DOM
- ▶ Defining the DOM
- ▶ Select and Manipulate
- ▶ Important Selector Methods
- ▶ Manipulating Style
- ▶ Manipulating Text and Content
- ▶ Manipulating Attributes
- ▶ Local Storage

➤ Forms

- ▶ The form element
- ▶ The label element
- ▶ The input element
- ▶ The option element
- ▶ The opt group element
- ▶ The button element
- ▶ The select element
- ▶ The text area element
- ▶ Form validations & Input validations



Module: 2

Dynamic Web Applications

➤ Array Methods

▶ Adding & Removing Elements

- Push
- Unshift
- splice
- pop
- shift

▶ Finding Elements

- Find
- Index Of

▶ Concat

➤ Events, Fetch & Call backs

- ▶ How to add Event
- ▶ Listeners Call backs
- ▶ Schedulers

- Set Timeout
- Clear Timeout
- Set Interval
- Clear Interval

▶ Hypertext Transfer Protocol (HTTP)

- HTTP Requests using Fetch
- HTTP Responses
- Working with JSON data

