

Course Outline

Module 1: HTML

- Introduction to HTML
- HTML & Browser
- HTML Syntax
- Head & Body Section
- Basic tags
- List in HTML
- Table
- Table Head and Body Content
- Table row and column
- HTML Elements & Attributes
- Iframe in HTML
- Audio and Video controlling
- Embedded video from YouTube
- Introduction to HTML form
- Form elements
- Input types and attributes
- Form arrangement and decoration

Module 2: CSS

- Introduction to CSS
- Syntax of CSS
- How to link CSS
- Important property of CSS
- Basic tags
- Layout concept in CSS
- Introduction to Selectors
- Universal & element type selector
- Id vs Class
- Descendant selector
- Child, Attribute, Pseudo selector
- Selectors grouping
- Designing a Contact Form Using HTML & CSS
- Flexbox
- Grid System
- Display Property
- Position
- Transition & transformation
- CSS After & Before
- Overview of Responsive Web Design
- Working with viewport
- Practicing Media Queries
- Live Project with HTML & CSS
- Introducing CSS Frameworks- Bootstrap

JavaScript:

Module 3: Variable, Value, Data type, Operators and Expressions

- Variables: and let keyword
- Statements
- Value
- JS Keywords
- Primitive Data types
- Non-Primitive Data types
- Type of Operators
- Understanding Expressions

Module 4: Arrays, Decision making and Loops

- String
- Arrays
- If Statement
- If-Else Statement
- If-Else-IF ladder and Nested If Statements
- Switch
- Handling repetitive tasks with loops
- For Loop
- While and Do-While Loop

Module 5: Functions, Variable Scope and Objects

- What is Function?
- Calling a Function
- Parameters and default parameters
- Scope of Variables: block level scope(ES6)
- Predefined Functions
- What is Objects?
- Elements and Properties
- Accessing an Object's properties and methods
- Constructor and this keyword
- Date and Math Objects

Module 6: The Browser Environment, Events and Event Handling

- BOM (Browser Object Model)
- Window.* properties
- DOM (document object model)

- Accessing DOM Nodes
- Modifying DOM Nodes
- Creating and Removing Nodes Calling a Function
- What are Events?
- Listen to Events.
- Event Handling
- HTML5 Forms and Input tag (form validation)
- Get and Post methods

Module 7: Introduction to ES6

- Constants
- Scoping: block scope variables and functions
- Arrow functions
- Extended Parameter Handling
- Template Literals
- Enhanced Object Properties
- Restructuring Assignment
- Class Definition and Inheritance
- Symbol Type
- Iterators & For-Of Operator
- Generators
- Typed Arrays
- New Built-in Methods
- Promises
- Internationalization & Localization

jQuery:

Module 8: Introduction to jQuery

- What is jQuery?
- Structure of jQuery
- Using jQuery and including .js file to HTML
- Type of Selectors 7.5 Handling Events with jQuery

Module 9: Filtering, Searching and Effects

- Selectors Recap
- Element and ID Selectors Structure of jQuery
- jQuery DOM Traversal
- jQuery DOM Manipulation

- jQuery Effects (...)
- APIs
- Geo-location
- Local Storage
- Session Storage

Module 10: AJAX and JQuery

- Introduction to AJAX
- Asynchronous access to remote data
- GET HTTP request
- AJAX Load
- Send Data
- Callback Handlers
- Change AJAX data type
- Status Codes
- JSON?
- Accessing and Consuming remote JSON Data

Module 11: HTML5 Forms and JQuery UI

- Understanding Forms
- Adding Smarts to Your Forms
- Form Validation
- Validation Tutorial
- Updating Database Table Values
- Introduction to jQuery UI
- Animation and Special Effects