

SYLLABUS - COMPLETE REACTJS

PRE-REQUISITE / TARGET AUDIENCE: Any beginner who wants to build career as Web designer can take this course

SYLLABUS - HTML

MODULE 01: HTML INTRODUCTION

- Web Development Introduction
- History of HTML
- What you need to do to get going and make your first HTML page
- What are HTML Tags and Attributes?
- HTML Tag vs. Element
- HTML Attributes:
- How to differentiate HTML Document Versions
- Software Installations for course

MODULE 02: HTML-BASIC FORMATTING TAGS

- HTML Basic Tags
- HTML Formatting Tags
- HTML Colour Coding

MODULE 03: HTML GROUPING AND LISTS

- Div and Span Tags for Grouping
- Unordered Lists
- Ordered Lists

MODULE 04: HTML IMAGES AND LINKS

- Image and Image Mapping
- URL Uniform Resource Locator
- URL Encoding

MODULE 05: HTML TABLE

- <thead>
- **⋄** <col>

- **❖**
- >

MODULE 06: HTML FORM

- ❖ input
- textarea
- button
- ❖ label
- drop-down

- checkboxes
- fieldset
- datalist
- radio button



HTML 5

- Video and Audio Support
- Header and Footer
- Navigation Links
- ❖ Form: HTML5 most used features
- HTML Graphics

SYLLABUS - CSS

MODULE 01: CSS INTRODUCTION

- Benefits of CSS
- CSS version History
- CSS Syntax
- External style sheet using <link>
- Multiple Style sheet
- ❖ Value Length and Percentage

MODULE 02: CSS SELECTORS

- ID selector
- Class selector
- Grouping selector

- Universal selectors
- Child selectors
- Attribute selectors

MODULE 03: COLOUR BACKGROUND CURSOR

- background-image
- background-repeat
- background-position
- CSS cursor

MODULE 04: TEXT FONTS

- color
- background-color
- text-align
- text-indent
- white-space

- letter-spacing
- word-spacing
- font-size
- font-style

MODULE 05: LISTS AND TABLES

- CSS List
 - list-style-type
 - o list-style-position
 - o list-style-image

- CSS Table
 - o border
 - o width and height

SYLLABUS: COMPLETE REACTJS



- o text-align
- padding

o color

MODULE 06: BOX MODEL

- Borders and Outline
- Margin and Padding
- Height and Width

MODULE 07: DISPLAY POSITIONING

- CSS Visibility
- CSS Display
- CSS Scrollbars
- CSS Positioning
 - Static positioning
 - Fixed positioning
 - o Relative positioning
 - Absolute positioning

SYLLABUS - JAVASCRIPT

MODULE 01: JS INTRODUCTION

- Java script Introduction
- Why JS
- Role of JS in web
- Benefits of JS

MODULE 02: VARIABLES AND OPERATORS

- Variable Declaration
- Variable Initialization
- Operators:
 - Arithmetic,
 - Comparison
 - Logical or Relational
 - Ternary or Conditional Operator
- Unary Operator vs Binary Operator
- Instanceof operator

MODULE 03: FUNCTIONS

- What is Function?
- Function with no argument
- Function with Argument
- Function with return value
- Optional Parameters in function

- Function Declaration
- Function Expression
- Anonymous Function
- Function as a value
- Callback function
- Built in Functions
- Standard Date and Time Functions

MODULE 04: DATA TYPES

- Primitive Types: Number, String, Boolean
- Weak type vs Strong type
- ❖ NaN
- Null vs undefined
- Union types

MODULE 05: VARIABLE'S

- Global variable
- Local variable
- Scope in JS
- Let vs const vs var

MODULE 06: CONTROL STATEMENTS

- Conditional Control Statements
 - o If-else Statement
 - Switch case statement
 - o break and continue
- Looping Control Statements
 - o For loop
 - o While loop
 - o Do while loop

MODULE 07: CLASS AND OBJECT

- Object
- Different ways to create object
- Constructor function
- This keyword
- Prototype
- Class
- constructor

MODULE 08: ADVANCE STUFF

Closure

Map

Set

Arrays

Promises

MODULE 09: WEB STORAGE

- Local Storage
- Session Storage

MODULE 10: JSON

- ❖ JSON Introduction
- Syntax rules of JSON
- ❖ JSON Stringify

MODULE 10: HTML FORM MANIPULATIONS

- HTML DOM Document Object Model
- Working with HTML form and it's element

SYLLABUS — REACTJS

MODULE 01: WELCOME TO FRONT-END WEB DEVELOPMENT WITH REACT

- Full-Stack Web Development: The Big Picture
- Introduction to React
- Front-end JavaScript Frameworks and Libraries Overview
- React App Overview
- Introduction to JSX
- Configuring your React Application
- Creating First app in React
- React Components: State and Props
- Lifecycle Methods introduction

MODULE 02: REACT ROUTER AND SINGLE PAGE APPLICATIONS

- React Component Types
- Lifecycle Methods in detail
- React Router and parameters
- Single Page Applications(SPA)
- UI Design and Prototyping
- State management in React

MODULE 03: REACT FORMS, FLOW ARCHITECTURE AND INTRODUCTION TO REDUX

- Controlled and uncontrolled form
- In world of Redux
- React Redux Form and validations

MODULE 04: REDUX STATE MANAGEMENT

- Redux Actions
- Redux Thunk
- Client-Server Communication
- ❖ API integration /
- React Animations (Optional)

MODULE 05: ASSESSMENT TEST

MODULE 06: PROJECT

Go live Project

SYLLABUS - GIT

MODULE 01: INTRODUCTION

- Source Control Management overview
- Why SCM tool required
- SVN vs GIT

MODULE 02: CLONING AND CREATING PROJECT

- Cloning code base
- Init create project
- States of GIT
 - Working directory
 - o Staging area
 - Repository

MODULE 03: BASIC SNAPSHOTTING

- Staging file
- Status
- Commit
- Diff
- Reset

MODULE 04: GENERAL CONCEPTS

- Local repository
- Remote repository
- What is upstream and downstream?

MODULE 05: BRANCHING AND MERGING

- Branch
- Checkout
- Merge

MODULE 06: SHARING AND UPDATING PROJECTS

- Fetch
- Pull
- Push