



## Micro Technologies

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Website: [www.mtnptech.com](http://www.mtnptech.com)

### Syllabus: HTML, CSS

#### Overview:

HTML and CSS go hand in hand for developing flexible, attractive, and user-friendly websites. HTML (Hyper Text Markup Language) is used to show content on the page whereas CSS is used for presenting the page. HTML describes the structure of a Website semantically along with presentation cues, making it a mark-up language, rather than a programming language. HTML allows images and objects to be embedded and can be used to create interactive forms.

#### Pre-requisite / Target Audience:

- Any beginner who wants to build career as Web designer can take this course.

#### Module 1: Web Programming Introduction

- Architecture of a website
- Different technologies in making the website
- Web Development Introduction

#### Module 2: HTML-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

#### Module 3: HTML-Basic Formatting Tags

- HTML Basic Tags
- HTML Formatting Tags
- HTML Color Coding

#### Module 4: HTML-Grouping Using Div Span

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- Div and Span Tags for Grouping

### Module 5: HTML-Lists

- Unordered Lists
- Ordered Lists
- Definition list

### Module 6: HTML-Images

- Image and Image Mapping

### Module 7: HTML-Hyperlink

- URL - Uniform Resource Locator
- URL Encoding

### Module 8: HTML-Table

- < table >
- < th >
- < tr >
- < td >
- < caption >
- < thead >
- < tbody >
- < tfoot >
- < colgroup >
- < col >

### Module 9: HTML-Iframe

- Using Iframe as the Target

### Module 10: HTML-Form

- <input>
- <textarea>
- <button>
- <select>

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- <label>

### Module 11: HTML-Headers

- Title
- Base
- Link
- Styles
- Script
- Meta

### Module 12: HTML-Miscellaneous

- HTML Meta Tag
- XHTML
- HTML Depreciated Tags & Attributes

## Syllabus CSS

### Module 1: CSS2-Introduction

- Benefits of CSS
- CSS Versions History
- CSS Syntax
- External Style Sheet using < link >
- Multiple Style Sheets
- Value Lengths and Percentages

### Module 2: CSS2-Syntax

- CSS Syntax
- single Style Sheets
- Multiple Style Sheets
- Value Lengths and Percentages

### Module 3: CSS2-Selectors

- ID Selectors
- Class Selectors

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- Grouping Selectors
- Universal Selector
- Descendant / Child Selectors
- Attribute Selectors
- CSS - Pseudo Classes

### Module 4: CSS2-Color Background Cursor

- background-image
- background-repeat
- background-position
- CSS Cursor

### Module 5: CSS2-Text Fonts

- color
- background-color
- text-decoration
- text-align
- vertical-align
- text-indent
- text-transform
- white space
- letter-spacing
- word-spacing
- line-height
- font-family
- font-size
- font-style
- font-variant
- font-weight

### Module 6: CSS2-Lists Tables

- list-style-type
- list-style-position
- list-style-image
- list-style
- CSS Tables
  - border

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- width & height
- text-align
- vertical-align
- padding
- color

### Module 7: CSS2-Box Model

- Borders & Outline
- Margin & Padding
- Height and width
- CSS Dimensions

### Module 8: CSS2-Display Positioning

- CSS Visibility
- CSS Display
- CSS Scrollbars
- CSS Positioning
  - Static Positioning
  - Fixed Positioning
  - Relative Positioning
  - Absolute Positioning
- CSS Layers with Z-Index

### CSS Floats

- The float Property
- The clear Property
- The clear fix Hack

**At the end of this course participants will design and develop two projects.**

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## Bootstrap Syllabus

**Overview:** Bootstrap is a sleek, intuitive, and powerful, mobile first front-end framework for faster and

easier web development. It uses HTML, CSS and JavaScript.

### Course Objectives:

1. Built-in Support for layout, grids, fluid grids, and responsive designs.
2. Pre-built CSS: Contains global CSS classes for typography, tables, grids, forms, buttons, images, and more.
3. Components: Contains lots of reusable components including Icons, Dropdowns, Navbars, Breadcrumbs, Popovers, Alerts, and many more.
4. JavaScript Plug-ins: Contains lots of custom jQuery plug-ins. You can include them all or one by one.
5. Customizable Components: We can customize Bootstrap's components with LESS variables and jQuery plug-ins to create our own version.

**Pre-requisite / Target Audience:** An intermediate knowledge on HTML and CSS.

### Module 1: Introduction to Bootstrap

- What is Bootstrap Framework
- Why Bootstrap
- History of Bootstrap
- Advantages of Bootstrap Framework
- What is Responsive web page
- How to remove Responsiveness
- Major Features of Bootstrap
- What is Mobile-First Strategy
- Setting up Environment

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- How to apply Bootstrap to Applications

### Module 2: Bootstrap Grid

- What is Bootstrap Grid
- How to apply Bootstrap Grid
- What is Container
- What is Offset Column
- How to Reordering Columns
- Advantages of Bootstrap Grid
- How to Display responsive Images
- How to change class properties
- How to use readymade themes
- How to customize Bootstrap's components, Less variables, and jQuery plug-in.
- What is Bootstrap Typography
- How to use Typography
- What is Bootstrap Tables
- What is Bootstrap Form Layout
- What is Bootstrap Button
- How display images in different styles like Circle shape etc.
- How to display text like muted and warning etc.
- What are Caret Classes
- How to hide or show the text in Bootstrap

### Module 3: Bootstrap Components

- What is Bootstrap Component
- Why Bootstrap Components
- Advantages of Bootstrap Components
- What are the different types of Bootstrap Components
- What is Glyphicons Component
- How to use Glyphicons Component
- What is Bootstrap Dropdown Menu Component
- What is Button Groups and Button Toolbar
- How to use Button Groups and Button Toolbar

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- What are different Input Groups Components
- What is Navigation Pills & Tabs Components
- How to use Navigation Pills and Tabs Components
- What is Navbar Component
- How to build a Responsive Navbar
- How to Add Forms and other controls to Navbar
- How to Fix the position of navbar
- What is Breadcrumb Component
- What is Pagination Component
- How to apply Pagination in Application
- What is Labels / Badge Components
- What is Jumbotron / Page Header Components
- What is Thumbnail Component
- What is Alerts & Dismissible Alerts
- How to Create Progress Bar
- What is Media Objects Component
- Why Media Objects Component
- How to use Media Objects Component
- What is Bootstrap List Group Component
- What is Bootstrap Panel Component

### Module 4: Bootstrap Plug-Ins

- Why Bootstrap Plug-Ins
- How to use Bootstrap Plug-Ins
- What is Transition Plug-in
- What Modal Dialog Box
- What are the different Properties, Methods and Events of Model Dialog Box
- What is Scrollspy Plug-In
- What is Tab Plug-in
- How to use Tab Plug-in
- What is Drop Down Plug-in
- What is Tooltip Plug-in
- How to use Button Plug-in

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- What are the different methods and events of Tooltip Plug-in
- What is Popover Plug-in
- What is alert and Button Plug-ins
- What is Collapse Plug-in
- What are different types of Properties, Methods and Events of Collapse Plug-in
- What is Carousel Plug-in
- What is Affix Plug-in

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## JavaScript (ES6) Syllabus

- Introduction
- Environment
- Syntax
- Variables
- Operators
- Decision Making
- Loops
- Functions
- Events
- Cookies
- Page Redirect
- Dialog Boxes
- Void Keyword
- Page Printing
- Objects
- Number
- Boolean
- Strings
- Symbol
- New String Methods
- Arrays
- Date
- Math
- RegExp
- HTML DOM
- Iterator
- Collections
- Classes
- Maps And Sets
- Promises
- Modules

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- Error Handling
- Object Extensions
- Reflect API
- Proxy API
- Validations
- Animation
- Multimedia
- Debugging
- Image Map
- Browsers
- Introduction of ES7, ES8, ES9

## React JS Syllabus

- Introduction
- Environment Setup
- Features
- Pros & Cons
- AngularJS Vs ReactJS
- React Native Vs ReactJS
- JSX
- Components State React
- State Vs Props
- Props Overview
- Props Validation
- Component API
- Component Life Cycle
- Forms
- Controlled Vs Uncontrolled
- Events
- Lists
- Refs
- Keys
- Fragments
- Router
- Higher-Order Components

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- Using Flux
- Flux Concept
- Flux Vs. MVC
- Redux, Redux Example
- Constructor
- Animations
- Higher order Components
- Map

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### Node JS Syllabus

- Introduction to Node JS
- Setup development environment
- Node JS modules
- Node package manager
- Creating web server
- File system
- Debug node JS application
- Events
- Express JS
- Serving static resources
- Database connectivity
- Project Development

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## GIT Syllabus

### Software Version Control

- **Centralized and Distributed**

- What are the advantages of Distributed over centralized.
- Why distributed is preferred versus Centralized.

- **Git and GitHub (Know the difference)**

- Various other git services providers

### Git

- *Repositories (forking and cloning and the difference between them)*
  - How to create
  - What are README files
  - How to read other people's repositories
- *gitignore files*
  - Why it is required?
  - What are important things to put in it?
    - Logs
    - Compiled Binaries
    - Coverage Reports
    - Intermediate Files
- *Commits*
  - What is a commit
  - Why commit often and in a logically coherent units
  - Difference between staging area, index area, and, working directory commit
  - Conventions to follow during a commit
  - Searching through a commit
- *Branching and Merging*
  - Branch as an abstraction unit
  - Why branching is required?
  - How it handles features and allows multiple people to work on the same repo without collisions.
  - Checkout a branch

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- Conventions to follow for a branch name
  - Why master exists
  - HEAD and branch references
- *Reset*
  - What is a reset?
  - Difference between hard, soft, and mixed reset.
  - When to do reset?
- *Stashing*
  - Why stashing is required?
  - How to keep stashes of files
  - How to pop them back
- *Issues and Pull requests (Github)*
  - What is an issue?
  - Atomic PRs
  - How to create an issue
  - How to assign it to a member?
  - How to create a Pull Request referencing that issue
  - How to review a PR
- *Git commands ( with common flags )*
  - init
  - clone
  - add
  - commit
  - remote
  - pull ( vs fetch and its difference)
  - push
  - merge
  - branch
  - checkout
  - status
  - diff
  - log
- *Git Rebase*
  - Why Rebase (vs merge)

Main target of this course to train the participants and make ready to work in industry.

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