

WEB DEVELOPMENT SYLLABUS

PREREQUISITES - B.E / B.Tech / M.E / M.Tech / MCA

DURATION - 7 to 8 Weeks (120 Hours)

PLATFORM -

- Linux (Fedora / Mandriva /Ubuntu) or Windows Host system
- Firefox, Chrome Browsers

MODULE TOPICS

- Single page web application development (HTML5 | CSS3)
- JavaScript for Front-end (JavaScript)
- Front-end Frameworks (Bootstrap)
- SQL
- PHP
- Foundation paradigms (OOPS)

COURSE OUTLINE

Detailed Course Contents: HTML5

- Introduction HTML
- HTML Basics
- HTML Elements
- HTML5 Semantic
- HTML Attributes
- HTML Headings
- HTML Paragraph
- HTML Styles
- HTML Formatting
- HTML Quotations
- HTML Computer Code
- HTML Comments & Colours
- HTML CSS, Links and Images
- HTML Lists
- HTML Blocks
- HTML Classes
- HTML Layout
- HTML Responsive
- HTML iframes
- HTML JavaScript
- HTML Head
- HTML Entities and URI Code
- HTML Symbols and XHTML
- HTML Charset and Forms

Detailed course contents: CSS3

- Introduction CSS3
- CSS3 Syntax
- CSS3 How To
- CSS3 Colours
- CSS3 Backgrounds
- CSS3 Borders
- CSS Padding
- CSS Height/Width
- CSS3 Gradients
- CSS3 Shadows
- CSS3 Text
- CSS3 Fonts
- CSS3 2D Transforms
- CSS3 3D Transforms
- CSS Links
- CSS Lists
- CSS Tables
- CSS Box Model
- CSS Outline
- CSS Display
- CSS Max-width
- CSS Position
- CSS Float
- CSS Inline-block
- CSS Align
- CSS Combinators
- CSS Pseudo-class
- CSS Pseudo-element
- CSS Navigation Bar
- CSS Dropdowns
- CSS Tooltips
- CSS3 Images
- CSS Attr Selectors
- CSS Forms
- CSS Counters
- CSS3 Animations
- CSS3 Buttons
- CSS3 Pagination
- CSS3 Multiple Columns
- CSS3 User Interface
- CSS3 Box Sizing
- CSS3 Filters
- CSS3 Media Queries
- CSS3 Responsive

Detailed course contents: JavaScript

- Introduction to JavaScript
- Java Script Language Basics
- JavaScript Objects
- JavaScript Scope
- JavaScript Events
- JavaScript Strings
- JavaScript Numbers
- JavaScript Math
- JavaScript Arrays
- JavaScript Boolean
- JavaScript Comparisons
- JavaScript Conditions
- JavaScript Switch
- JavaScript Loops
- JavaScript Type Conversion

- JavaScript RegExp
- JavaScript Errors
- JavaScript Debugging
- JavaScript Hoisting
- JavaScript Strict Mode
- JavaScript Functions
- JavaScript Objects
- JavaScript Forms
- JavaScript HTML DOM
- JavaScript BOM

Detailed course contents: Bootstrap

- Introduction to Bootstrap
- Bootstrap Basics
- Bootstrap Grids
- Bootstrap Themes
- Bootstrap CSS
- Bootstrap JS
- Breakpoints
- Containing elements
- Jumbotron & Glyphicons
- Tables
- Column / Rows
- Navbar
- Images
- Thumbnails
- Forms
- Panels

Detailed course contents: SQL

- Introduction to Database
- Introduction to DBMS
- Creating First database
- DDL
- Alter & Drop
- Foreign Key & Truncate
- DML
- SQL Joins
- Additional SQL features

Detailed course contents: PHP

- Introduction
- Basics
- Functions/Arrays/Strings
- Loops
- Database Connection
- SELECT Query with PHP (Part I)
- SELECT Query with PHP (Part II)
- Form
- Sessions
- Basic security
- Validations with HTML5/PHP