

Syllabus of 1 year for Web Development

Module of Web Designing

Introduction to Web Technologies

1. Introduction to Web Technologies
2. Careers in Web Technologies and Job Roles
3. How the Website Works?
4. Client and Server Scripting Languages
5. Difference between a Web Designer and Web Developer
6. Types of Websites (Static and Dynamic Websites)
7. Web Standards and W3C recommendations

Adobe Photoshop

1. Introduction of Stock Photography
2. Types of Image Graphics
3. Vector Graphics and Tools
4. Scalar Graphics and Tools
5. Introduction to Adobe Photoshop
6. Interface Tour of Photoshop and Palletes
7. Color Modes and Resolution Options
8. File Types in Photoshop
9. Using Photoshop Tools with Realtime Examples
 11. Move Tool
 12. Marque Tools
 13. Lasso Tools
 14. Quick Selection / Magic Wand
 15. Crop / Slicing Tool
 16. Image Manipulation Tools
 17. Brushes
 18. Patterns
 19. Gradients
 20. Pen Tool / Shape Tool
 21. Text Tool
26. Working with Layers, Grouping and Smart Objects
27. Image Adjustments
28. Layer Masking, Layer Clipping
29. Using Blending Options to create unique effects

Module 1: What is HTML?

- 1 Examining the structure of an HTML document
- 2 Understanding tags and containers

Module 2: Fundamentals of HTML

- 1 HTML Elements and Tags
- 2 HTML Element Attributes
- 3 Displaying text with Headings and paragraphs
- 4 Using block and inline tags

- 5 Displaying characters with references

Module 3: Metadata and the Document Head

- 1 Exploring the front matter of HTML
- 2 Applying CSS to your document
- 3 Adding scripting elements
- 4 Using the meta tag

Module 4: A CSS Primer

- 1 Introducing CSS
- 2 Understanding CSS placement
- 3 Exploring CSS syntax
- 4 CSS Box Model
- 5 CSS Rules – Selectors and Declarations
- 6 CSS Inheritance
- 7 CSS Properties
- 8 CSS Selectors
- 9 Advanced Selectors - Pseudo Classes and Pseudo Elements
- 10 CSS Colors
- 11 Understanding CSS units of measure
- 12 Some CSS examples

Module 5: Images

- 1 Using images
- 2 Flowing text around an image
- 3 Breaking lines around an image
- 4 Aligning images
- 5 Mapping links in an image

Module 6: Hyperlinks and Navigation

- 1 Understanding URLs
- 2 Working with hyperlinks
- 3 Using relative URLs
- 4 Specifying a base URL
- 5 Linking within a page
- 6 Using image links

Module 7: Lists

- 1 Exploring list types
- 2 List elements in depth
- 3 Using text menus with unordered lists

Module 8: Tables

- 1 Table basics
- 2 Exploring the semantic parts of a table
- 3 Grouping columns

Module 9: Forms

- 1 Introducing forms
- 2 Using text elements
- 3 Using checkboxes and radio buttons
- 4 Creating selection lists and dropdown lists
- 5 Using an image as a submit button
- 6 Setting tab order

Module 10: Introducing HTML5

- 1 Exploring prior standards
- 2 Why do we need HTML5?
- 3 HTML5 timeline
- 4 Current HTML5 support

Module 18: JavaScript and jQuery

- 1 Document Object Model
- 2 Variables and Operators
- 3 Conditional and Loop Statements
- 4 Functions
- 5 Built-in Events
- 6 jQuery Basics
- 7 Selecting and Modifying Elements with jQuery
- 8 Debugging in Firefox and Chrome

Module of PHP Introduction to PHP

Module Goals: In this part we learn the basics of PHP like syntax, variables, control structures etc. which are the basic building blocks of PHP.

- 1 PHP Syntax
- 2 HTML Syntax
- 3 Language Constructs & Functions
- 4 Echo, Include, Require
- 5 Variables
- 6 Data Types
- 7 Language Functions
- 8 Data Types
- 9 Operators

Module Goals: Knowing conditionals and loops is very important in PHP as they change the flow of your application. We will learn them in this part.

- 1 If...Else...Elseif
- 2 Switch
- 3 While
- 4 Do-While
- 5 For
- 6 Foreach Loop
- 7 Week 2 Topics
- 8 Variable Scope

Module Goals: In this module we understand the concepts variable scope.

- 1 Variable Scope
- 2 Super Global
- 3 Arrays and Forms

Module Goals: In this part we learn about Array and sorting them in PHP. We also get an understanding how to work with Forms and create the most used ones like: Login form, Sign up form etc.

- 1 Arrays
- 2 Indexed Arrays
- 3 Associative Arrays
- 4 Multidimensional Arrays
- 5 Sorting Arrays
- 6 Forms - Handling
- 7 Forms Validation
- 8 Week 3 Topics
- 9 Files and Directories

Module Goals: In this part we will learn how to work with files and directories in PHP. We will get an understanding of how Cookies and Sessions are used to improve the overall web site performance and experience.

- 1 File
- 2 File Upload
- 3 Cookies
- 4 Sessions
- 5 E-mail
- 6 Errors and Exceptions

Module Goals: In this module we will work on database operations like create, update, delete, read etc.

- 1 MySql Connect
- 2 Database CRUD Operations
- 3 Queries
- 4 Joins
- 5 Prepared Statements
- 6 Week 5 Topics
- 7 XML, AJAX and Web services

Advanced PHP FRAMEWORK:

CODEIGNITER

- 8 1. Introduction to CodeIgniter
- 9 2. Why a Framework
- 10 3. History
- 11 4. Download and Installation
- 12 5. Introduction to MVC
- 13 6. Configuration Settings
- 14 7. Routing
- 15 8. Controllers
- 16 9. Views
- 17 10. Models
- 18 11. Helpers
- 19 12. Libraries
- 20 13. Form Validation
- 21 14. Fetching Data using Input Class
- 22 15. Session
- 23 16. Database
- 24 17. ActiveRecord

WordPress-

1. Set up a domain and hosting account
2. Set up a MySQL database on their server
3. Install WordPress on the MySQL database
4. Plan their website by choosing color schemes, fonts, layouts, and more
5. Search for themes in WordPress
6. Select, install, and activate a theme
7. Add posts to their website
8. Create website pages
9. Add images, photo galleries, and more
10. Create tags for SEO and categories to organize their posts
11. Use WordPress as a content management system (CMS)
12. Use widgets and plugins
13. Create an ecommerce site
14. Integrate WordPress with social media
15. Customize a WordPress site using PHP, CSS, and HTML

Module of SEO

- 1 What is Domain
- 2 Basic Knowledge of World Wide Web
- 3 Difference between Portal and Search Engines
- 4 What is SEO

- 5 Types of SEO Techniques
- 6 Black hat techniques
- 7 White Hat techniques
- 8 How Search Engine works
- 9 SEO Research & Analysis
- 10 Market Research
- 11 Keyword Research and Analysis
- 12 Keyword opportunity
- 13 Competitors Website Analysis
- 14 SWOT Analysis of Website
- 15 How to Choose Best Keywords
- 16 Tools available for Keyword Research

