

# Professional Web Designing Course

## Introduction to Web Technologies

- Introduction to Web Technologies
- Careers in Web Technologies and Job Roles
- How the Website Works?
- Client and Server Scripting Languages
- Domains and Hosting
- Responsive Web Designing
- Types of Websites (Static and Dynamic Websites)
- Web Standards and W3C recommendations

## Adobe Photoshop

- Introduction of Stock Photography
- Types of Image Graphics
- Introduction to Adobe Photoshop
- Interface Tour of Photoshop
- Color Modes
- Resolution and Presets
- Move Tool
- Marque Tool
- Lasso Tool
- Quick Selection, Magic Wand
- Crop, Slicing Tool
- Healing Brush, Patch Tool
- Brush Tool
- History Brush
- Eraser Tool
- Pattern Stamp, Clone Stamp
- Gradient Tool
- Blur and Exposure Tool
- Pen Tool, Shape Tool
- Text Tool
- Other Photoshop Tools
- Layers, Groups and Smart Object
- Blending Options
- Filter Effects
- Client requirement analysis
- Realtime Website Layout Design
- Practical Task in Layout Design

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## HTML 4

- What is Markup Language
- Basic Structure of HTML
- Difference Between HTML and XHTML
- Head Section and Elements of Head Section
- Meta Tags
- Css Tags
- Script Tag
- Table Tag
- Div Tag
- Header Tags
- Paragraph, Span, Pre Tags
- Anchor Links and Named Anchors
- Image Tag
- Object Tag
- Iframe Tag
- **Forms**
- Form Tag
- Attributes of Form
- POST and GET Method
- Fieldset and Legend
- Text input, Text area
- Checkbox and Radio Button
- Dropdown, List and Optgroup
- File Upload and Hidden Fields
- Submit, Image, Normal, Reset Button
- Creating a Live Website Form
- HTML Validators

## Adobe Dreamweaver

- Introduction to Adobe Dreamweaver
- Dreamweaver Interface Basics
- Defining a Dreamweaver site
- Insert Toolbar
- Common Tools
- Layout Tools
- Forms Tool
- Spry Tools
- Properties Panel
- Using Snippets panel
- Dreamweaver extensions
- Template Design in DW
- Editable and Non-Editable Regions
- Defining the DWT for project.
- Creating sub pages for project

## CSS 2.1

- Introduction to Cascading Style Sheets
- Types of CSS
- **CSS Selectors**
- Universal Selector
- ID Selector
- Tag Selector
- Class Selector
- Sub Selector
- Child Combinatory Selector
- Adjacent Sibling Selector
- Attribute Selector
- Group selector
- First-line and First-letter selector
- Before and After Selector
- **CSS Properties**
- Type Properties
- Background Properties
- Block Properties
- Box Properties
- List Properties
- Border Properties
- Positioning Properties
- **Realtime Implementation**
- Conversion of Table to CSS Layout
- CSS Menu Design (Horizontal, Vertical)
- Form Designing

## HTML 5

- Introduction to HTML5
- Features of HTML5
- HTML5 DocType
- **New Structure Tags**
- Section
- Nav
- Article
- Aside
- Header
- Footer
- Designing a HTML Structure of Page
- New Media Tags
- Audio Tag
- Video Tag
- Canvas and Svg Tag
- Introduction to HTML5 Forms
- New Attributes
- Placeholder Attribute
- Require Attribute
- Pattern Attribute
- Autofocus Attribute
- email , tel, url types
- number type
- date type
- range type
- voice search
- Examples of Form

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## CSS 3

- Introduction to CSS 3
- **New CSS 3 Selectors**
- Attribute Selectors
- First-of-type
- Last-of-type
- Nth-child
- Element:empty
- **New CSS3 Properties**
- Custom Fonts
- Text-Shadow Property
- Text-Stroke Property
- Rounded Corners
- Box Shadows
- CSS Gradients
- CSS Multiple backgrounds
- Opacity Property
- Transition effect
- Transform effect
- Animation effects
- Css Media Queries
- Using CSS3 in Practical Layout

## Responsive Web Design with Bootstrap

- Introduction to Responsive Design
- Mobile first design concepts
- Common device dimensions
- View-port tag
- Using css media queries
- Menu conversion script
- Basic Custom Layout
- Introduction to Bootstrap
- Installation of Bootstrap
- Grid System
- Forms
- Buttons
- Icons Integration
- Using CSS3 in Practical Layout

## Java Script

- Introduction to Client Side Scripting
- Introduction to Java Script
- Javascript Types
- Variables in JS
- Operators in JS
- Conditions Statements
- Java Script Loops
- JS Popup Boxes
- JS Events
- JS Arrays
- Working with Arrays
- JS Objects
- JS Functions
- **Using Java Script in Realtime**
- Validation of Forms
- Related Examples



- What is 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
- 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
- At the end of the course participants will be able to:
- Develop Responsive, mobile first projects on the web.

## Php

### Overview Of PHP

- How to Install Xampp & Wamp tools
- Static and Dynamic Web Pages
- How PHP Work
- Server-Side / Client-Side Scripting
- Role of Apache & MySQL Server
- PHP Capabilities & Advantages
- How to Configure php.ini
- PHP vs .NET
- Receiving data from HTML Forms

### Receiving data from HTML Forms

- Form creation
- Understanding method \$\_GET , \$\_POST and \$\_REQUEST
- Receiving Data at Server
- Sending Artificial data from HTML
- Formated Response by PHP
- Dynamic data manipulation
- Handling Null Values
- Generating Dynamic Web Page by HTML Input

### Webdesigning Concepts

- Learn basic HTML Tags
- Creating Static Web Pages
- Tables & Frames
- Learn how to manage text, fonts and paragraphs
- Hyperlinks & relative URL

### Working with PHP Sessions

- Session Overview
- How Session Work
- Global Session Variables
- Session and Array
- Expiring Session
- Session Storage

### PHP Functions

- Why to create Functions
- Defining Functions
- Variable Scope
- Passing parameter to Functions
- Returning Values
- Global variable
- Passing Arguments by Value and Reference
- The include, include\_once and Require Statement
- Difference between include and Require
- Built-in PHP Functions

### Files in PHP

- Reading Files
- Writing Files
- File Functiond
- Creating Directory
- Extract data from files

### Configuring and Using MySQL

- Fetching MySQL data from PHP forms
- Creating registration forms
- managing Secure Login Screens
- Receiving Character and numeric indexes
- Learn PHP SQL Functions

### PHP Array

- What are Arrays?
- Character & Numeric Indexing
- Auto Indexing

- Counting & Sorting Array Elements
- Array Search
- Array Functions
- Sending Array from static Page
- Handling HTML Form Data as an Array
- Implementation of all crud operation
- Search data in MySQL
- PHP Paging script

#### Using Cookies with PHP

#### Dynamic Scripts

- Page Redirection at run time
- Managing Login Screen
- Uploading images and files at server
- File Download from web server
- Handling PHP Cookies
- Dynamic Email

- Purpose of Cookies
- Setting Cookies
- Retrieving Cookies

#### How CAKE PHP Work?

#### Working with Databases and Forms

- Introduction to PHP MyAdmin Panel
- PHP Database Creation
- Understanding table structure
- Go through with SQL Queries
- crud operation in mysql
- Handling multiple tables in PHP-MySQL
- MySQL Joins and Views
- Importing and Exporting data through SQL script
- Connectivity to remote server

- Introduction to CakePHP
- CakePHP naming convention
- How Client-Server Request Work
- Handling request from CakePHP Views
- Listing data from MySQL table
- Passing arguments from view to cakephp controller
- How to Design Web Layout?
- A hand on cakephp Theme generation
- How to manage cakePHP Actions
- Database Interaction in CakePHP
- Data Insertion by mvc helper classes

#### Codeigniter

#### Basic Programming in PHP

- PHP Scripting Blocks
- How to embed in HTML
- Data Types & Variable Declaration
- Conditional Statements
- Looping Constructs while,for etc

- Understanding data flow & Architecture
- Communication b/e view and controller
- Connectivity with MySQL database
- Data Validation
- Saving & Registering Data
- Receiving Data from MySQL
- CRUD Operation
- Login Panel

#### Styling through CSS

- Introduction to Cascading Style Sheets
- Basic Format of CSS
- External CSS
- inline CSS and style block
- How to manage DIV,span and Layout
- CSS3 Effects

## 3 Website Project Design

Vinayak Institute of Computer Education

Above Madame Showroom, opp. Komal petrol pump, premnagar, Ambala city