



PROFESSIONAL TRAINING

➤ What you will be Able to Achieve during This course

This course will enable you to build real-world, dynamic web sites development design and promotion. Using PHP language and database MySQL allows you to make our sites dynamic: to have them be customizable and contain real-time information. In this course, we describe how to approach real-world projects and take you through CMS and Framework based project using jQuery, Photoshop, CSS based projects.

Using this course you are able to develop projects like:

- Shopping Carts
- Content-management systems
- Web based email
- Mailing list Manager
- Web forums
- PDF document generation, etc.

➤ Who Should Attend?

These are creating dynamic, database-driven Web sites. Basic experience with HTML is assumed. Programming such as C or PERL experience is helpful but not required.

➤ Designed For

- Job seekers who want to double their chances to get placement as PHP Developer
- Developers who are already familiar with PHP and want to improve their knowledge of advanced development techniques.
- Professional PHP developers who want to write more efficient and secure code.
- PHP Programmers who want to learn MVC based framework

➤ Course Goals:

By the end of this course, the student should be able to build responsive and Dynamic web pages in HTML PHP and have a working knowledge of Cascading Style Sheets (CSS). JavaScript jQuery and many more tools

➤ Hands –on Training

In this course, you develop PHP scripts to perform a variety of tasks, culmination in the development of a full database-driven Web page .

Exercises include:

- Accessing command line arguments from PHP scripts
- Generating dynamic and Responsive Web pages using PHP ,HTML 5,jQuery
- Retrieving and manipulating from data
- Tracking user navigation on your Web site
- File handling with PHP script
- Regular Expression with PHP to make Strong validation
- Object Oriented Concept to make more powerful Web Application

- Exception Handling
- Integrating database content to generate dynamic Web pages
- Building modular scripts to enable code reusability Template And Banners Design by Photoshop
- Online promotion of websites

COURSE CONTENT

➤ DEVELOPMENT

- Php
- PHP CMS(Joomla, Wordpress)
- PHP Template Engine(Smarty)
- PHP Framework(Cake)

Designing

- HTML
- CSS
- JavaScript
- Photoshop
- DreamWeaver
- jQuery Introduction
- HTML 5 introduction

➤ Website promotion

- Introduction to SEO and what it involves

➤ LIVE PROJECTS

- Working on 4 minor and 1 major Live Project (application) analysis and implementation, Implementing PHP, Database and UI together as a module.

TABLE OF CONTENTS

➤ Programming with PHP

➤ Basic Syntax and programming with PHP:

- PHP Delimiters
- Creating User Defined Variable
- Assigning values to scalar variable
- Data type with PHP
- Type Casting
- Type testing
- Declaring and using constants
- Understanding Operators and Precedence
- Evaluating Expressions
- Making decision with if, else and switch
- Advantage of iteration using while, do and for loops
- Comments with PHP

➤ **Introducing ARRAY**

- How to use an important programming construct: arrays
- Numerically indexed arrays
- Non-Numerically Indexed arrays
- Array operators
- Multidimensional arrays
- Array sorting
- Array Functions
- Converting Arrays to Scalar Variables

➤ **Introducing with the File system and the Server**

- Saving data for later using file System
- Opening a File
- Creating and Writing to a file
- Closing a file Deleting a file
- Reading from file
- Deleting a file
- Using other useful file functions
- Create a directory
- Remove a directory

➤ **String Manipulation and Regular Expression**

- Formatting String
- Joining and Splitting String
- Comparing Strings
- Matching and replacing substrings with string functions
- Introducing Regular Expressions
- Character sets and classes
- Repetition
- Subexpressions
- Counted Subexpressions
- Anchoring to the Beginning or End of a String
- Branching with Regular expression
- Matching Literal Special Characters
- Reviewing the Special characters
- Matching and replacing substrings with Regular Expressions
- Splitting string with Regular expressions

➤ **Reusing Code and Writing Functions**

- Introducing Functions
- Defining Functions
- Using Parameters
- Returning Values
- Calling by value value versus calling by refernce
- implementing recursion
- Reusing codes

- Using Require() and include()
- **Object Oriented PHP**
 - Object oriented concepts
 - Classes, objects and operations
 - Class attributes
 - Per-class constants
 - Class method invocation
 - Access Modifier
 - Static hinting
 - Object cloning
 - Abstract class
 - Final keyword
 - Inheritance
 - Implementing Interface
 - Understanding Advance and New Object Oriented functionality
 - magic functions with PHP
 - Exception Handling Concepts
 - Exception Control Structures try...catch...throw
 - The Exception class
 - User Defined exception

➤ **Session and Cookie**

- What Session Control is?
- Understanding Basic Session Functionality
- What is a Cookie?
- Setting Cookies with PHP
- Using Cookies with Sessions
- Deleting Cookies
- Starting a Session
- Registering Session Variables
- Using Session Variables
- Destroying the Variables and Session

➤ **My SQL Database and SQL**

- Relational Database Concept and technology
- Web Database Design
- Web Database Architecture
- Creating a MySQL Database
- Setting up Users and Privileges
- Creating Database Tables
- Column Data Types
- What is SQL?
- Implementing Insert/Delete/Update and select Query
- Joining Table
- Dropping Tables and Databases
- Setting up connection with PHP and MySQL

- Choosing Database to Use
- Disconnecting from the Database
- Advance My SQL Programming

➤ **Advance PHP Techniques**

- Introduction about FTP/MTP server
- Math functions
- File Upload
- File Download
- PDF generation
- Email with PHP
- PHP configuration file
- Error tracking and debugging

CMS AND FRAMEWORKS

➤ **Joomla**

There is only one award-winning content management system used by millions around the world, including some of the most respected corporations, Joomla is designed to help individuals create their own dynamic websites without requiring knowledge of complicated web languages.

➤ **Introduction to Joomla**

- Content Management System Overview,
- Joomla! Benefits,
- Joomla! Features,
- How Joomla! Works.

➤ **Setting Up a Joomla Site**

- Installing Joomla, Joomla! Installation Wizard,
- Adding a New Article,
- Editing the Main Menu,
- Removing Modules,
- Un-publishing Whole Menus,
- Changing the FrontPage
- Logo Graphic,
- Creating a Custom Poll

➤ **Adding Content**

- Joomla! Sections and Categories,
- Uncategorized or Static Content,
- Creating Sections and Categories,
- Deleting the Sample Articles,
- Categories, and Sections,
- Adding New Categories and Sections,
- Selecting a Text Editor, Adding Articles,
- Adding Menus to Point to Content, Installing a New Template

➤ Joomla Administration

Administration, Template Manager, Language Manager, Article Manager, Section and Category Managers, Frontpage Manager, Media Manager, Trash manager, Global Configuration Manager, User Manager, Menu Manager, Extension Manager, Module Manager, Plugin Manager.

➤ Creating Your Own Templates

- Creating the Joomla! Template Files,
- Adding a Module and a Component to Joomla!,
- Modifying an Existing Template.

➤ Joomla Extensions

Difference Between Modules, Components, and Plug-Ins:

The Most Advanced Extensions, Components and Modules, Module Types, Default Site Modules, Wrapper, Banners Module and Advertisement Module.

➤ Site Components

Banners Component, Contacts Component, Newsfeeds Component, Polls Component, Web links Component, Site Plug-Ins.

➤ Joomla E-commerce Overview

➤ Creating Extensions

Writing a Front-End Module, Structure of the Module, The PHP Code File, Creating the Module File, Creating the XML Descriptor, Installing the Component.

WORDPRESS

Wordpress is free blog software, unless you want to implement some more features to meet the growing needs of a popular blog. During the next few years Wordpress evolve into more of a CMS friendly platform.

➤ Installation of Wordpress.

- Installing Word Press on a Dedicated Server
- Understanding wp-config.php
- Understanding the database structure
- Understanding Directory Permissions

➤ Basics of the Wordpress User Interface

- Understanding the Wordpress Dashboard
- Pages, Tags, Media and Content Administration
- Core Wordpress Settings

➤ Finding and Using Wordpress plugins

- Finding and Installing plugins Quickly and Easily
- Upgrading Wordpress plugins
- Recommended Wordpress plugins

➤ Working in widgets

- Installing widgets
- Creating your own Widget

➤ Working with Wordpress Themes

- Understanding the Structure of WordPress Themes
- Finding Themes and Choosing the Right One

- Installing and Configuring Themes
- Editing and Customizing Themes
- **Wordpress content Management**
- Understanding Posts versus Pages
- Organizing Posts with Categories
- Connecting Posts Together with Tags
- Managing Menus
- Creating a website with all features
- Developing a websites in Wordpress

CAKE PHP

CakePHP is a based open-source framework developed for rapid web application development.

CakePHP makes building web applications simpler, faster and require less code.

Employees MVC architecture, thus enables clean separation between Presentation, business logic and back end

➤ **Beginning with CakePHP**

What is CakePHP, Understanding Model-View-Controller

➤ **Basic Principles of CakePHP**

- CakePHP Structure,
- A Typical CakePHP Request,
- CakePHP Folder Structure,
- CakePHP Conventions, File and Classname Covent.ions, Model and Database Conventions,
- Controller Conventions, View Conventions

➤ **Developing with CakePHP**

installation, Configuration, Controllers, Components, Models, Behaviors, DataSources, Views, Helpers, Scaffolding, Global Constants and Functions, Vendor Packages, Data Validations, Pagination

➤ **Introduction to Core Components & Helpers**

Creating the Application, database, Cake Database Configuration, Create a Model, Create a Controller, Creating Views Data Validation, Deleting or Editing etc...

CODEIGNITER

➤ **Introduction to CodeIgniter**

What is CodeIgniter, Requirements, Basic Installation

- Introduction to MVC structure
- OOPs programming in CodeIgniter
- Application set up with Codeigniter
- Understand view model and controller
- Interaction with database,
- Implementing with ajax(with jquery)
- Helpers , Libraries in Codeigniter
- Validating the users.

➤ Project Implementation in CodeIgniter

AJAX AND JQUERY IMPLEMENTATION

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

- Introduction to JQuery
- Implementing a JQuery features in our website

WEBDESIGN

➤ JavaScript & CSS

- How to design and develop a Web page using HTML and CSS.
- How to link pages so that they create a Web site
- Design and develop a Web site using text, images, links, lists, and tables for navigation and layout.
- Style your page using CSS, internal style sheets, and external style sheets.
- Learn. how to use graphics in Web design
- Introduction to JavaScript
- Form validation using JavaScript

PHOTOSHOP

It is an excellent tool for editing photos. If a designer is preparing a digital or scanned photograph for use in a project, whether it be a website, brochure, book design or packaging, the first step is often to bring it into Photoshop. Using a variety of tools within the software, a designer can:

➤ Getting to know the work Area

- Using the tools
- Using the options bar and other panels
- Customizing the workspace
- Finding resources for Photoshop

➤ Basic Photo Corrections

- Strategy for retouching
- Resolution and image size
- Adjusting color in Camera Raw
- Straightening and cropping
- Replacing colors
- Using the clone stamp tool
- Using content-aware fill
- Using the spot healing brush

➤ Working with Selections

- Using the quick selection tool
- Moving a selected area
- Manipulating selections

- Using the magic wand
- Selecting with the lasso tools
- Refining the edges of a selection

➤ **Layers**

- Rearranging layers
- Applying a gradient
- How to flatten Image
- Applying layer styles

➤ **Filter/ Effects**

HTML-5

In current times when the border between desktop and mobile is rapidly fading away, users expect to get to the information anywhere, anytime and expect it to be fast. Meeting all those expectations and providing users with what they want is the single best way to keep clients focused on your product, service or website.

HTML5 is the latest iteration of HTML addressing modern needs and expectations of websites. It deals with things like semantic markup, providing information about content it describes, it is becoming new standard for all good web developers and browser vendors

➤ **Vision And Future Of HTML5**

- What Is HTML5? History of HTML5
- Browser Support
- Features Detection
- HTML5 DOCTYPE
- New Attributes in HTML5
- New Input Types
- Attributes of HTML5
- Form Validation
- HTML5 Audio/Video Markup
- Design Responsive website by HTML 5

➤ **Website Hosting**

How we upload/host our website online.

SEARCH ENGINE OPTIMIZATION (SEO)

Search engine optimization is a necessity in today's internet world if a website intends on becoming a competitive entity. Whether your site sells a product, service or information, SEO provides the exposure and user-experience needed in a cost-effective way.

➤ **Introduction to SEO and what it involves** **Types of SEO**

- White Hat SEO
- Grey Hat SEO
- Black Hat SEO

➤ **What are search Engines?**

➤ **Types of Search Engines**

- **How Search Engine Works and how they rank websites based upon a search term?**

How to do SEO for Dynamic CMS like Joomla Wordpress Drupal etc