

## **Course Name: Rich Internet Application**

**Duration: 85 Hours**

### **What you will learn**

This course gives you the detail study of web development and content management system. You will learn static and dynamic web page creation using PHP. Also you will know about basic installation and query formation including query optimization and access control for database. APACHE server installation and verifying configuration with core module. Also you will learn about security features, delivering dynamic content, virtual host, proxy servers and performances. Also have open source content management system DRUPAL. It includes Installation, modules, creating content for your web site and publishing site.

### **Learn To**

Advance features for web development

Server installation

Database optimization

Content management system

Developing enterprise websites.

### **Scope**

Web Page Developer

Web Designer

Web Site Developer

Web development and administration

Web site optimization

search engine optimization

webmaster tools manager

analytics data manager

Web Administrator

### **Prerequisites**

Basic web programming knowledge

## **Course Objectives**

Developing complex sites and applications

Understanding drupal

Websites using drupal

Publishing multiple sites

## **Course Topics**

### **RICH INTERNET APPLICATION**

#### **HTML**

Overview of HTML

Formatting text with HTML

Adding links

Creating lists, forms, frames and tables in HTML

Setting Attributes

Adding multimedia in HTML

Advanced HTML

#### **CSS**

CSS Basics

CSS styling content

CSS Box Model

Advanced CSS

#### **PHP**

Introduction to PHP

Basic PHP development

PHP functions

PHP forms and user input

Working with files

Advanced PHP

## **MYSQL**

Getting started

Using PHP with MYSQL

Creating database

Working with database

Advanced MYSQL

## **APACHE**

Introduction to Apache Web Server

Installation and Configuration

Security

Improving Performance

Virtual Hosts, Redirection, and Indexing

Proxy Servers and Firewalls

Monitoring Apache Web Server

Delivering Dynamic Web Content

## **DRUPAL**

Getting started

Creating Multiple Sites on a Local Computer

Accessing Your Test Site(s)

Adding Modules and Themes

Creating Content

Custom blocks

Working with menus

URL Aliases

Moving Entire Drupal Site with Databases

Moving Stuff to Your Web Site

Categories (Taxonomy)

Additional Tips and Tricks

Keeping Your Local and Remote Sites Synchronized

## **HTML**

### **Overview of HTML**

Introduction to HTML

Versions of HTML

### **Formatting text with HTML**

Heading

Paragraph

Images

Elements

Styles

Colors

Fonts

Comparing Procedural and Descriptive Formatting

### **Adding links**

Anchor tag

### **Adding lists, forms, frames and tables in HTML**

#### **List**

List tags

Ordered list

Unordered list

Definition list

#### **Forms**

Basic Input and Attributes

Other Kinds of Inputs

Styling forms with CSS

## **Frames**

Frame elements

Frame tags

## **Tables**

Creating a Table

Table Headers

Captions

Spanning Multiple Columns

Styling Tables

## **Setting Attributes**

Core attributes

Language attributes

Keyboard attributes

## **Adding Multimedia in HTML**

Embedding audio and video

Multimedia tags

## **Advanced HTML**

Figure element

Autofocus attribute

New Doctypes

Placeholders

hgroups

URL

Web server

Image manipulation

## **CSS**

### **CSS Basics**

CSS introduction

CSS syntax

CSS id and class

### **CSS Styling Content**

Styling background

Styling text

Styling fonts

Styling links

Styling tables and lists

Colors

### **CSS Box Model**

CSS border

CSS padding

CSS margins

Inline functions

### **Advanced CSS**

CSS grouping

CSS positioning

CSS dimension

CSS floating

Image gallery

Attribute selectors

Media types

CSS selectors

## **PHP**

### **Introduction to PHP**

PHP overview

Versions of PHP

Installation methods

Syntax usage

### **Basic PHP development**

Variables types

Operators

Control structures

Loops

Arrays

String manipulation

### **Functions in PHP**

Reuse code function

Require() and include()

Function and Variable Scopes

Parameters and return values

Built in PHP function libraries

### **PHP forms and user input**

Form handling

Form validation

Importing user input

Accessing user input

## **Files system**

Overview of file processing

Opening a file

Reading from a file

Closing a file

File functions

File locking

## **Advanced PHP**

Sessions

Cookies

Date and time function

Preg function

File upload

E-mail

Exceptions

Filter

AI with PHP

PHP V5 objects

## **MYSQL**

Why MSQL in PHP

Versions of MYSQL

Strengths of MYSQL

## **Designing database**

Relational database concepts

How to design the database



## **Creating database**

Steps for creating database

Database connection

Database selection

## **Working with database**

Inserting data into database

Basic select statement

Retrieving data from database

Updating records in the database

Altering tables after creation

Deleting records from the database

Dropping tables

Dropping the whole database

## **Advanced MYSQL**

Access control

Updating privileges

Making your database secure

Speeding up queries with indexes

Optimization

## **APACHE**

### **Introduction to Apache Web Server**

Apache Web Server Evolution

Apache Architecture and Features

Apache's Role in the Internet

### **Installation and Configuration**

Build and Install Apache Web Server

Verify Initial Configuration

Start, Stop, and Status the Apache Server Process

Configure Apache Core Modules

## **Security**

Basic Security with Apache

Host-based Authentication

User-based Authentication

Secure Sockets Layer (SSL)

## **Delivering Dynamic Web Content**

Apache's Role in the Dynamic Web

Server Side Includes (SSIs)

Configure Apache Web Server to Support CGI

Write CGI Programs

CGI Alternative Technologies

## **Virtual Hosts, Redirection, and Indexing**

Virtual Hosting with Apache

Virtual Host Configuration

Redirection

Directory Indexing

## **Proxy Servers and Firewalls**

Apache Proxy

Configuring Proxy Services

Firewalls and Apache

Firewall Architecture Models

## **Monitoring Apache Web Server**

Error Logs

Logging HTTP Access

Web Server Status and Server Information

User Tracking

## **Improving Performance**

Improve System Performance

Apache Performance Strategies

Process Improvements and Directives

Proxy Caching

## **DRUPAL**

### **Getting started**

Drupal introduction

System requirements

Run the drupal installation program

After installation

Troubleshoot installation problems

Installing themes and modules

## **Creating Multiple Sites on a Local Computer**

### **Accessing Your Test Site(s)**

### **Adding Modules and Themes**

Modules

Themes

## **Creating Content**

Content types

Adding images to your text

Front pages

Creating content types

## **Custom blocks**

Adding A 'Contact Information' Block

Adding a Last Updated Statement

Creating a Newest Posts Block

## **Working with menus**

How to Menu

The Contact Form

## **URL Aliases**

## **Moving Entire Drupal Site with Databases**

Backup Process with phpMyAdmin

## **Moving Stuff to Your Web Site**

## **Categories (Taxonomy)**

## **Additional Tips and Tricks**

Tracking Module Status

Making Multiple Site Maintenance a Bit Easier

Controlling User Log In

## **Keeping Your Local and Remote Sites Synchronized**