



# Web Technology

PHP is the most widely used, general-purpose scripting language which was designed for website development to make web applications and dynamic web pages. PHP is embedded into HTML page and run on PHP enabled web servers.

This course is designed to learn students programming web-based applications using Basics of HTML, PHP and MySQLi. Students will learn how to code and implement dynamic web sites.

This course will move the student to the development of powerful web applications that can be deployed over the Internet.

**Here is the syllabus of course:**

## **Module I**

### **Introduction and Basics of HTML**

- Tags
- Elements
- Paragraph
- Headings
- Line Breaks
- Horizontal Rule
- Lists
- Color Codes
- Font
- Text Links
- Images
- Image Link
- Forms
- Table

## **Introduction and Basics of DHTML / HTML5**

- Introduction
- Types Of CSS
- Internal, Inline and External CSS
- How to use and implement External CSS in HTML page
- Selectors(Tags)
- Use of Class and Id with the Selectors
- Create Div and Use of Div
- CSS Background & Color
- CSS Text
- CSS Font
- CSS Border
- CSS Padding & Margin

## **Able to Create Front End for Web site**

### **Module II**

#### **JavaScript**

- Introduction to JavaScript
- Three ways to use JavaScript
- Working with events
- Client-side Validation

#### **JQuery**

- Introduction to JQuery
- Validation using JQuery
- JQuery Forms
- JQuery Examples

### **Module III**

## **Introduction to PHP**

- Evaluation of Php
- Basic Syntax
- Defining variable
- Constants in Php
- Data type in php
- Operator and Expression

## **Decisions and loop**

- Control Structures
- If else, and all loops
- For Each Loop

## **Array**

- Anatomy of an Array
- Creating index based and Associative array
- Accessing array Element
- Looping with Index based array
- Looping with associative array using each() and foreach()

## **String Matching with regular Expression**

- What is regular expression?
- Pattern matching in Php
- Replacing text
- Splitting a string with a Regular Expression

## **Handling Html Form with Php**

- Capturing Form Data
- Dealing with Multi-value filed
- Generating File uploaded form
- Redirecting a form after submission

## **Function**

- What is a function?
- Define a function
- Call by value and Call by reference Recursive function

## **Working with file and Directories**

- Understanding file & directory
- Opening and closing a file, Coping, renaming and deleting a file
- Working with directories
- Building a text editor
- File Uploading & Downloading

## **State Management**

- PHP Sessions
- PHP Cookies

## **ADVANCED PHP**

### **Introduction to OOPS**

- Objects
- Declaring a class
- The new keyword and constructor
- Destructor
- Access method and properties using \$this variable
- Public ,private, protected properties and methods
- Static properties and method
- Class constant
- Inheritance & code reusability
- Polymorphism
- Parent:: & self:: keyword
- Instance of operator

- Abstract method and class
- Interface
- Final

## **Module IV**

### **PHP MySQLi Connect To Database**

- Introduction To MySQLi
- Create Database
- Create Table
- MySQLi Data types
- MySQLi Insert
- MySQLi Select
- MySQLi where clause
- MySQLi Delete
- MySQLi Update
- MySQLi Aggregate Functions (sum, avg. count etc.)
- MySQLi Joins
- PHP Connectivity with MySQLi
- Connectivity between front end and back end
- Working on CRUD
- PHP & Email Sending (Auto mail)

**Able to create Backend or Usability of Admin Panel**

## **Module-V**

**CMS (Technics & working with content Management System)**

## ❖ JOOMLA

- Introduction To CMS
- Installation
- Handling Joomla Back End Customization In Joomla
- Installation and Uses Of Extensions in Joomla
- Template Development In Joomla
- Module and Component Development in Joomla

**Able to Creating web Page using Joomla**

## ❖ WORDPRESS

### **Basics of the WordPress User Interface**

- Understanding the WordPress
- Dashboard Pages, Tags, Media and Content Administration

### **Finding and Using WordPress Plugins**

- Finding and Installing Plugins Quickly and Easily
- Upgrading WordPress
- Plugins Recommended WordPress Plugins

### **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

## **Creating web Page using WordPress**

### **Module-VI**

#### **Introduction of Responsive Web Design using framework (Latest Technology)**

- **Introduction of bootstrap**
- Components of bootstrap
- Working and implementation components
- Working with Content
- Working with Layout
- Working with carousel
- Working with Navigation
- Functionality of Grids
- Working with grids
- Use of Jumbotron
- Create Pagination

### **Module-VII**

#### **Mega Project Based on All Content**