

## **Course Name: Basic Web Programming**

**Duration: 85 Hours**

### **What you will learn**

This course covers the study of basic web programming and development. Topics mainly include the design, creation and development of web sites and web pages. You will learn about basic web page creation with standard tools. The course will focus on web-related programming like HTML, CSS and PHP. You will learn simple tags and attributes for creating static web pages using HTML. You will learn about cascading style sheet for decorating your page with simple steps. You will also learn about dynamic creation of dynamic web sites using PHP. Also you will learn database connectivity with basic queries that function over. From over all, this provides you the basic knowledge of web programming.

### **Learn To**

Structure and syntax

Basic designing

Static web pages

Dynamic web sites

Database connectivity

### **Scope**

Web Page Developer

Web Designer

Web Site Developer

search engine optimization

webmaster tools manager

Web Administrator

### **Prerequisites**

Basic web programming knowledge

### **Course Objectives**

Basic web page creation

Web application development

Dynamic sites

Develop skills in digital imaging

## Course Topics

### **BASIC WEB PROGRAMMING**

#### **HTML CSS AND PHP:**

##### **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

Using PHP with MYSQL

Creating database

Working with database

Advanced MYSQL

## **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

## **Using PHP with 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