

PROTEC

Computer Consultancy Course Outline

PHP Syllabus

Duration:

Setup and Installation

*WAMP Installation and Configuration *Overview of Server End Programming

Introduction to PHP

*Evaluation of PHP *Basic Syntax *Defining Variable and constant *PHP Data type * Operator and Expression **(3 Hrs)**

Decision and Loop

*Making Decisions (if,else,switch,break,continue) *Loops(while,do while,for ,foreach) *Generating HTML Tags through PHP *use PHP Syntax inside HTML tags **(4 ½Hrs)**

Functions

*What is Function *Defining a Function *Call by Value and Call by Reference * Recursive Function **(3 Hrs)**

Array

*What is Array? *Creating Index based and Associative Array *Accessing Array Elements *Looping With Index Based Array *Looping with associative array using each() and foreach() **(4 ½Hrs)**

String

* Creating and accessing String * Searching & Replacing String * String Related Library function **(1 ½ Hrs)**

Super Global

*POST *GET *SERVER * SESSION *COOKIE *FILES *POST a form on server * Difference between POST and GET *Use Server Global to get complete server information *what is Session? *Create Session *Get Session Information *Destroy and Unset Sessions *what is Cookie?*Create Cookies *How to Upload File on Server **(7 ½Hrs)**

Working With File and Directory

* Opening and closing a file * Copying ,renaming and deleting a file * Working with directories *File Uploading & Downloading **(3 Hrs)**

Assignment 1

*Design a Complete Student Registration Form (with Image) and Show Data on Next Page **(1 ½Hrs)**

Database

Introduction

*What is Database? *Need of Database *what is Table? *Row And Columns *Constraints (Primary, Foreign, Unique, Check Not Null). *Dynamicity in Website with the help of Database (1 ½Hrs)

SQL

*Environment of PHP My Admin *Work On Command Prompt *DDL Operations (CREATE, ALTER, DROP, RENAME) *DML (INSERT, UPDATE, DELETE) (3Hrs)

SQL Select

*Select Syntax *SQL Operators (=, in, like, between wild cards) *Basic Joining Operations (Inner, Outer, Self, Cross) *Group Functions (max, min, avg, sum, count) *Single Row Functions (3Hrs)

PHP Connection with Database

*Types Of Connection (Procedural, ObjectOriented, PDO) *Inserting Data in Database From The Form *Fetching Data From Database *include and require statement (3Hrs)

Sending Mail through PHP

*Send Email through php with help of phpmailer service (1 ½Hrs)

Assignment 2

*Design a login form Verify it from database and Navigate to Home Page *Register New User Form for New User(with Profile Picture). (3 Hrs)

Introduction To OOPS

*Introduction *Objects *Declaring A Class *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 *Abstract method and class *Interface *Final (6 Hrs)

Ajax Jquery and JSON

*Introduction to ajax *PHP With Ajax(xml object and jquery.ajax) *working with database (6 Hrs)

Wordpress

*Introduction to CMS *Installation and Configuration of wordpress *installation of plugins and themes *Understanding wordpress dashboard, pages widgets *Create Sample Website (3 Hrs)