



Course : Web Development

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▪ **Course Summary**

Course Start : 23 th August, 2014	Days : 3 days in Week (36 Hours)
Course Length : 18 Class (2 Hours)	Class Time : 3:30-5:30 ; 7:30-9:30
Email : azizbd08@gmail.com	Web : www.atechnd.org
Duration : 2 Months	Location : Uttara-10, Dhaka, Bangladesh
Software : WAMP / XAMPP	Office Hour : By Appointment
Course Fee : 12,000/-	Admission : 50% Course Fee

▪ **Course Description:**

In this training course, students will learn to create database-driven websites by using PHP and MySQL or any other database. The class also covers SQL.

▪ **PREREQUISITES:**

Basic computer skills and knowledge of HTML fundamentals. Previous programming experience is helpful but not required.

▪ **COURSE OBJECTIVES:**

Upon completion of this course, students will be able to:

- Achieve PHP programming Skills needed to successfully build interactive, dynamic sites.
- Test and debug PHP Application.
- Learn manipulate files with PHP.
- Manage database with PHP
- Learn to Authentication user with PHP
- Email with PHP and many more things.
- Able to work on **oDesk Freelancer** Marketplace

▪ **CLASS MATERIALS:**

Each Students in our Live Online and our Onsite Classes receives a comprehensives set of materials, including course notes and all the class example. We recommend you have a mobile device, either a Tablet or a smart phone (optional). This class 80% hands-on and 20% Lecture. Each module provides a study guide which detailed learning objectives, reading and tasks.

▪ **Suggested Course Plan (PHP & MySQL)**

Session 1. Over View of PHP

Duration:2 hours

- Introduction to the World Wide Web.
- What is a Websites?
- Local Server & Installation.
- Client and server roles & Communication.
- How to Work AMP Module.
- PHP, Syntax & How PHP works, Why PHP?
- PHP Comments & Case Sensitive
- Static vs. Dynamic websites. What's the difference? Advantage and Disadvantage
- Client side Scripting Vs. Server Side Scripting
- PHP Variable with naming rules.
- Data Types, Sting, strlen() and strops() function.
- PHP Constant, Set Constant, Difference between constant and variable
- PHP Operators
 - Arithmetic Operator
 - Comparison Operator
 - Logical or Relation Operator
 - Assignment Operator
 - Conditional or ternary operator
 - String Operators
 - Increment & decrement Operator
 - Array Operator
- PHP Run & Debug

Session 2: Decision Making, Loops

Duration :2 hours

- PHP Conditional Statement
- If Statements
- If...else Statements
- If ... elseif...else Statements
- Switch Statements
- PHP Loops
- While loop
- Do... while Loop
- For loop

- Foreach loop

Session 3: Array & Function

Duration :2 hours

- PHP Array
- Numeric Array, Associative Array, Multidimensional Array
- Length of an Array- Count() function
- Loop Through an indexed Array
- PHP Sorting Arrays, Sort function for Arrays
- PHP 5 Array Functions
- PHP Functions
- User Defined Functions
- Function Arguments, Default Argument Value
- Functions - Returning values
- Dynamic Function Calls:
- Variable functions
- Predefined Variables
- String Manipulation Functions

Lesson 4: Build in functions, Session & Cookies

Duration :2 Hours

- Date() Function, Format the date function
- Time Stamp with time()
- Converting a Time Stamp with getdate ()
- Converting a Time Stamp with date():
- Date/Time Functions, Date/Time Constants
- File inclusion, include() Function & require() Function
- mail() Function
- PHP Secure E-mails
- Sending HTML email:
- Sending attachments with email:
- Cookies, Create a Cookie, How to retrieve a Cookie value?
- Setting Cookies with PHP
- Deleting Cookie with PHP
- Anatomy of a Cookie
- Accessing Cookies
- Starting a PHP Session, Turning on Auto Session, Session without cookies
- Destroying a PHP Session
- Display Images Randomly
- Browser Redirection

Lesson 5: Form Handling

Duration: 2 hours

- Form Handling.
- Simple HTML form
- GET vs. POST

- When to use GET & POST?
- Global Variables – Superglobals
- PHP Form Validation, PHP form Security
- PHP Forms – Required Fields
- Display the error Message
- PHP Forms – Validate E-mail and URL
- PHP Complete Form Example
- Self-referencing forms

Lesson6: PHP File Handling

Duration: 2 Hours

- PHP file Handling, Opening a File, Closing a File
- Reading a File Line by Line
- Reading a File Character by Character
- File Upload, Create the Upload Scripts, Restriction on Upload
- PHP Error and Exception Handling, Possible error levels
- Creating Custom Exception Handler, PHP bug Debugging
- PHP flock() function, PHP directory function
- PHP – Coding Standard Gallery
- Image Upload & Dynamic image
- File Permission in PHP

Lesson7: PHP

Duration :2 hours

- Regular Expression
- Matching, finding, replace patterns
- Math function
- Embedding Java Scripts in PHP
- OOP program with PHP, Class
- Inheritance, Throwing and Catching Exception
- PHP Capitalization
- PHP explode and implode
- PHP XML DOM,XML Expat Parser

Lesson :8 MYSQL Database

Duration :2 hours

- My SQL, What is Database? MYSQL Database? Why use a Database?
- A Relational Database Management System. RDBMS Terminology
- MYSQL Connection using PHP Script
- Setting up MYSQL in Local host / Cpanel
- Create Privilege Username and Password
- Create Database and Table, Table Create Rules, Import & Export Table
- Table, Record and Fields
- Primary Key and Auto increment fields, Unique key, Foreign Key and other

- keys
- MySQL Data Types
- MySQL Syntax, Reserved Words
- Selecting Database, Drop Database
- Selecting MySQL Database
- JDBC and ODBC
- Handling MY SQL Null Values
- MYSQL Reguexps

Lesson: 9

Duration :2 hours

- MySQL Connect
- Execution SQL Calls
 - INSERT
 - SELECT
 - FETCH
 - UPDATE
 - DELETE
- Data Store/ Insert, View from Database
- Where Clause, Wildcard Use, Order by Keywords
- Data Manipulation Edit and Delete
- Create a Dynamic Scroll News
- Finding The number of rows
- Database Backup
- MySQL Sorting Result

Lesson10: PHP MySQL

Duration :2 hours

- PHP Various Form Validation
- PHP Pagination
- PHP Search, Query by Specific Keyword
- Dealing With Dates and Time

Lesson11: PHP MYSQL

Duration :2 hours

- Php Login, Create Signup & Login Page
- Welcome page
- Change Password
- Forget Password
- Update Profile
- Logout

Lesson12:PHP MySQL

Duration :2 hours

- Create Supper Admin Panel / Admin Panel
- Add User/ Sub User
- Change Password, Delete User, Logout
- Getting Ip address from visitor

- Making a contact us form
- Product discount application
- Adding Capuche to form

Lesson13:JavaScripts

Duration:2 hours

- Introduction to JS
- Form Validation using JS
- JQuery
- XML and its use, XML HTTP Request, property of XML HTTP Request

Lesson14: Framework and Ecommerce

Duration:2 hours

- Concept of Frame work
- Concept of Code Igniter
- Familiar with Shopping Cart
- osCommerce open source
- Various module of osCommerce
- PHP for PERL Developers

Lesson15: MySQL Advanced

Duration:2 hours

- MySQL Join, Join Table, Type of Join
- MySQL Transaction, MY SQL Alter Command, My SQL Indexes
- MYSQL Temporary Table, Clone Table
- Database info, My SQL Using Sequence
- MySQL Handling Duplicates
- MySQL Injection

Lesson 16: SQL

Duration:2 hours

- Select Distinct
- SQL Where, SQL AND OR
- SQL Select TOP,SQL LIKE
- SQL IN and BETWEEN,SQL Aliases,
- SQL Join, Inner Join, Left Join, Right Join, SQL full Join
- SQL Union, SQL Select Into, SQL Constraint, SQL not Null
- SQL Unique, SQL Check, SQL Default, SQL Create index
- SQL Dates, SQL General & DB data types

Lesson 17: SQL Functions

Duration:2 hours

- SQL AVG(), SQL COUNT(), SQL FIRST(), SQL LAST()
- SQL MAX(), SQL MIN(), SQL SUM()
- SQL Group by, SQL Having

- UCASE(), LCASE(), SQL MID(), SQL LEN()
- SQL Round(), SQL NOW(),SQL FORMAT()

Lesson 18: Project

Duration:2 hours

- Create a Standard Back-end
- Crate a dynamic front-end website.

