

PHP and MySQL Course – PROGRAM

1. World Wide Web and HTTP Introduction

- What is WWW?
- HTTP in depth, HTTP request / response lifecycle dissection
- URL, HTML

2. HTML Fundamentals – Basics

- HTML basics: formatting tags, images, hyperlinks, lists

3. HTML Fundamentals – Tables and Forms

- HTML tables: column, cells, cellspacing, cellpadding, colspan, rowspan
- HTML forms and basic controls: text field, text area, select, radio buttons, check boxes, buttons, image buttons

4. CSS Fundamentals

- What is CSS? Why “cascading”?
- Style sheet syntax
- Linking presentation and content
- CSS selectors and rules

5. JavaScript Fundamentals

- Using JavaScript language – first steps
- Manipulating the HTML DOM tree
- Debugging JavaScript

6. PHP Basics

- What is CGI? What is PHP? What is Web server?
- Web application lifecycle
- PHP advantages and disadvantages
- PHP syntax
- Variables
- Floating point operations
- Boolean expressions
- Strings
- Arrays
- Constants
- Predefined variables
- Some basic functions
- Variable variables (\$\$)

7. Code Flow Control

- Conditional statements
- Loops
- Functions and return values

- Include and require
- Variables scope

8. Working with User Input

- HTML forms
- GET versus POST requests
- Handling file uploads
- Escaping user data (HTML escaping)
- Regular expressions: literals, meta symbols, simple patterns, characters classes, quantifiers
- Using regular expressions in PHP: preg_match, preg_replace, preg_split, etc.

9. PHP Sessions

- HTTP cookies in details
- Working with sessions
- Building custom sessions engine

10. SQL Language

- What is database and RDBMS?
- Introduction to MySQL
- PHP MyAdmin
- SQL syntax
- DML basics – SELECT, INSERT, UPDATE, DELETE
- DDL basics – CREATE, DROP, ALTER
- Working with multiple tables – UNION, JOIN
- Table keys, unique fields
- MySQL specific queries – LIMIT, REPLACE

11. Working with Databases

- Connecting database
- Fetching data
- Modifying data
- Persistent connections
- Preventing SQL injection

Training Duration – 40 hours