

Crystal Concepts Systems & Solutions

PHP & MYSQL Dynamic Web Design/Programming

Chapter 1

- **Introduction to PHP**
- **Introduction to LAMP/WAMP**
- **Variables and Expressions in PHP**
- **PHP data Types**
- **PHP Operators**
- **Expression & Control Structure**
- **Functions**
- **Arrays**
- **Classes and Objects**
- **Summary**
- **Exercise**

15 Hours

Chapter 2

- **Session Management in PHP**
 - What is a session.
 - Dependencies on the php.ini file
 - Understanding PHP session variables
 - Create a PHP session variable
 - Register and modify PHP session variables
 - Putting PHP session IDs in pages
 - Good Practice with sessions and PHP
 - PHP Sessions and databases
- **File and Directory Access Using PHP**
 - Opening files, local and remote
 - Reading and writing files
 - include
 - require
 - Handling file permissions
 - Handling file ownership
 - File locking
 - Opening and reading directories
 - File uploads from the browser/user

- **Other I/O Issues in PHP**
 - Getting IP addresses from visitors
 - Getting referring URLs from visitors
 - Shell Commands
 - Environment variables
 - Showing different content to different browsers (IE, Netscape, Mozilla Firefox, Opera and other Browsers)
 - Debugging
 - Handling HTTP and MIME headers
 - Handling Email with PHP
- **Summary**
- **Exercise**

9 hours

Chapter 3

- **Introduction to Graphics in PHP**
 - Graphics on the Web
 - Creating images in PHP
 - Steps for creating an image
 - Declaring the co-ordinates for the Image
 - Using Basic functions for Image creation
 - Drawing Text
 - Drawing basic Objects
 - Drawing Advanced Objects
 - Creating charts by giving co-ordinates
 - Using Basic functions for Image creation
 - Creating charts using existing image input
 - GET and POST Method uploads
 - Error Messages explained
 - Common pitfalls
 - Uploading Multiple files
 - PUT Method support
- **Summary**
- **Exercise**

9 hours

Chapter 4

- **Database Access**
 - Introduction to Database concepts

- Advantages of using Databases
- Database Management System
- MySql Database Programming
- Using PHP with Oracle Databases
- Using PHP with MY SQL Databases
- Using PHP with ODBC Connections
- Using Php with other databases
- **Summary**
- **Exercise**

6 hours

Chapter 5

- **PDF / Word / Excel File creation**
 - Introduction
 - Related Libraries
 - PDF Creation
 - Excel creation
 - Transform XML to Html
- **XML and PHP**
 - Introduction
 - Predefined constants
 - Event handlers
 - Character Encoding

- **Examples**
- **XML RPC**
- **Summary**
- **Exercise**

9 Hours

Chapter 6

- **LDAP in PHP**
- **Accessing OS Services**
- **Calendar Function**
- **Zip file compression**
- **PHP / JAVA**
- **PHP / .Net**
- **Other useful Functions and Routines**
- **Summary**
- **Exercise**

9 hours

Chapter 7

- **Handling CURL in PHP**
- **PHP Encoding**
- **ZEND Engine**
- **PHP sockets**
- **PHP Regular Expression**
- **Internalization**
- **Summary**
- **Exercise**

9 hours

Chapter 8

- **Linux installation and Apache server setup overview**
- **Php Installation Configuration**
- **Mysql Installation**
- **LAMP Packages**
- **Sample Project Walk-through**
- **Summary**
- **Exercise**

6 hours

Chapter 9: Project

- **Sample project Walk-through**
- **Project development (Individual or Combined)**
- **Live training on hosting of your project in web server**
- **Final assessment**

12 hours

Duration: 2 months

Class Timings: Daily 2 hours/6 days a week

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