

PHP and MySQL Course – PROGRAM

1. Accessing Files, Resources and Processes

- Opening files
- Reading/writing data
- Streams handling (pipelines)
- Directories
- File permissions
- Accessing external programs
- Network programming
- Example: handling emails

2. Output Control and HTTP Headers

Output buffer control

- HTTP headers
- Controlling the browser cache
- Redirecting the browser

3. Object-Oriented Programming with PHP

- What are class and object?
- Methods and properties scope
- Inheritance
- Static methods and variables
- Serialization
- Namespaces

4. Exceptions Handling

- Try...catch
- throw function, the Exception class
- The @ operator
- Setting global exception handlers
- die function
- Setting the level of output

5. PEAR Package

- What is PHP package?
- Using PEAR
- Some PEAR classes (Database, XML, Authentication, Mail, ...)

6. Advanced PHP Techniques and Integration with Apache

- PHP configuration (php.ini), modifying PHP configuration at runtime
- PHP security
- Working with the Apache Web server
- mod_rewrite and other useful Apache modules

- PHP from the command line
- MySQL configuration
- Apache configuration
- Debugging and performance

7. PHP Coding Best Practices

- Coding style best practices
- Best practices for accessing databases
- Best practices for session handling
- Making application location independent
- Supporting Cyrillic and Unicode
- Multiple languages and localization
- PHP design patterns

8. Building a Simple Blog System: A-Z Example

- Creating the HTML and CSS from image files
- Designing the header, footer and the sidebar
- Designing the database
- Implementing "view topics" functionality
- Implementing "login / logout" functionality
- Implementing "post topic" functionality
- Implementing data paging
- Deployment on the production environment

9. Practical Project: e-Commerce Web Site

- Implement simple e-commerce Web site with PHP, MySQL and Apache
- From Web design images to HTML and CSS
- Designing the header, footer and the sidebar
- Designing the database
- Implementing the functionality
- Browse categories and products
- Shopping cart
- Login / logout
- Add / edit / delete products and categories
- Upload product photos
- Data validation
- Data paging
- Deployment on the production environment

Training Duration – 40 hours