

IIAIT

COURSE CONTENT

PHP/PHP++

IIAIT

Core PHP5 Training

1. Introduction

- Classes & Objects
- Object based & Object Oriented Programming
- Three Tier Architecture
- HTML & significance of HTML in web development
- What is CSS & how it is helpful
- Database & its properties
- Difference between DBMS & RDBMS
- Why PHP is called server side scripting language
- Why it is useful in web development
- What are type shape & type loose languages
- Difference between various versions of PHP
- Compiler & Interpreter
- What is ZEND Engine
- Work of ZEND Engine

2. Language Constructors

- Fundamentals in programming
 - Tags in PHP
 - Data types in PHP
 - Resource Management
 - Constants & Variables
 - Simple variable declaration
 - Dynamic Variables
 - Checking type of variables
 - Changing type of variables
- Loops
- Operators
 - Precedence of operators
 - Associativity of operators
 - Operator types
 - Identical & Comparison Operator
- String Declaration

- Arrays
 - What is an array?
 - Why we use arrays instead of simple methods
 - Types of arrays
 - Indexed Array
 - Indexed array declaration
 - How to print single element from an array
 - How to print every value present in an array
 - General functions related to arrays
 - Associative Array
 - Associative array declaration
 - How to single element from an associative array
 - How to print every value present in an associative array
 - General functions related to associative array
 - Mixed Array
 - Mixed array declaration

3. File Handling

- Creating a file
- Opening a file
- Reading a file
- Writing into a file
- Closing a file
- Deleting a file
- Checking size of a file
- Checking existence of a file
- Sending the pointer to a particular location in a file
- Finding the current location of a pointer
- Check whether file contents end or not
- Locate the pointer at the beginning of file
- File locking
- File Uploading and File Downloading

4. Functions

- Isset, is_null & empty functions
- Call by value & call by reference

- Local & Global Variables
- Pre & Post Increment & Decrement Operators
- Static Variables
- Global Keyword

5. Types of Errors

- Methods for sending requests to server
- Super Global Variables
- Include & Require
- Explode & Implode
- String & Array Remaining Functions
- Header Function

6. MySQL

- SQL Introduction
- Connecting to MySQL
- Creating a database in MySQL via script
- Selecting a database
- Dropping a database
- Creating tables
- Inserting into tables
- Modifying a table
- Updating values in a table
- Renaming
- Grant & Revoke Functions
- Closing Connections
- Triggers
- Joins
- Fetching data from MySQL Database

7. Session

- What is a session
- Initializing session variables
- Retrieving values from session variables
- Destroying session variables

8. Cookies

- What is a cookie
- Types of cookies
- Initializing Cookie
- Variables Retrieving cookie variables
- Destroying a cookie

9. Object Oriented Concepts in PHP

- Public, Private & Protected
- \$this keyword
- Constructors & Destructors
- Polymorphism
- Overloading
- Operator Overloading
- Function Overloading
- Overriding
- Inheritance
- Abstract Class & Methods
- Interface
- Final Class
- Exception
- Checked Exception
- Unchecked Exception
- Magic Methods

10. Working with Regular Expressions

- preg & ereg functions
- Email validation
- String pattern matching
- PCRE expression

11. Working with XML

- The Extensible Markup Language (XML)
- Creating an XML Document
- Simple XML
- Parsing XML Documents
- Accessing Children and Attributes
- XPath Queries

- Modifying XML Documents
- Working With Namespaces
- DOM
- Loading and Saving XML Documents
- XPath Queries
- Modifying XML Documents
- Moving Data
- Modifying Data
- Removing Data
- Working With Namespaces
- Interfacing with Simple XML

12. Communicating with Internet Services

- Sending Internet Mail
- Project: Sending an E-mail with a Mail Class
- Reading Mail with IMAP or POP3
- Getting and Putting Files with FTP
- Performing DNS Lookups
- Checking Whether a Host Is Alive
- Getting Information About a Domain Name

13. Java Script

- What Is JavaScript?
- A Short History
- ECMA Script 3
- The Document Object Model (DOM)
- The Browser Object Model (BOM)
- Syntax
- Variables
- Functions
- All about Events
- Cross Browsing

14. Designing

- Understanding Web Site Design Structure
- Table Structure
- Div Structure

- Iframe Structure
- Working with DIV tag
- Working On DREAMWEAVER

15. CSS

- What is CSS?
- Types Of CSS
- Types Of Selectors
- Hierarchal CSS

WAVE

Advance PHP5 Training

1. JQuery

- Basics Of JQuery
- Including the JQuery Library Code in an HTML Page
- JQuery Utilities
- Faster, Simpler, More Fun
- Dimensions
- Effects
- Events
- HTML Form Enhancements with Plugins
- JQuery, Ajax, Data Formats: HTML, XML, JSON, JSONP
- Using JQuery in Large Projects
- Submitting a Form Using Ajax
- Validating Forms with JQuery
- Sliding and Fading Elements in and out of View

2. Ajax

- Introducing AJAX
- HTML/XHTML
- The Relation with JavaScript
- Ajax Using HTML and JavaScript
- XMLHttpRequest
- Ajax Using XML and XMLHttpRequest
- XPath
- XSLT
- Ajax Using XSLT
- The Essential Cross-Browser HTML DOM

3. Photoshop

- Familiarizing yourself with the Photoshop Interface
- Opening an file/Creating a new file
- Using Tools from Photoshop's Toolbar
- Using the Image Menu
- Layer Management
- Working With Text in Photoshop

- Creating Graphics in Photoshop
- Tips & Fun Stuff

4. Dreamweaver

- What is IDE
- Introduction to Dreamweaver
- Setting Up Your Site and Project Files
- Creating a Table-based Page Layout
- Adding Content to Pages
- Formatting Your Page with CSS
- Publishing Your Site
- Creating a CSS-based Page Layout
- Developing a Web Application

5. Adobe Flash

- Creating a FLA file and adding graphic elements
- Creating a symbol and adding animation
- Publishing SWF files
- Adding a replay button to restart the animation

6. HTML 5

- Introduction
- Basic Templates
- The HTML and XHTML Syntax
- The HTML Vocabulary and APIs

7. Joomla

- What Is Joomla?
- Installation of Joomla
- What is CMS (Content Management System)?
- What Is MVC architecture?
- User and Access Management
- Article Management
- Category Management
- Menu Management
- Module Management
 - How to Create Module?
- Component Management

- How to Create Component?
- Template Management
 - How to Create Template?
- Plugin Management
- Global Configuration Management
- Project on Joomla

8. Magento

- Introducing Magento
- Managing Your Magento Store - Part 1: Catalog Management
 - Administration
 - Site Configuration and Behavior
 - SEO (Search Engine Optimization)
 - Site Performance Enhancement
 - Cache And Index Management
 - Product Types
 - Product Configuration
 - Front End Functionality
 - Product Management
 - Taxes
 - Multi-store Setup
 - Reports
- Managing Your Magento Store - Part 2: Product Marketing
 - Customer Management
 - Events, Sales, Promotions
 - CMS Pages
 - Newsletters
 - Catalog Price Rules
 - Shopping Cart Price Rules
 - Import/Export of Customer Data
- Managing Your Magento Store - Part 3: Operations
 - Order Management
 - Fulfillment
 - Customer Service
- Core Principles for Theming in Magento

- Magento Template System—Architecture and Components
- Working with Themes
- Recommended Approach to Customizing
- Working with Page Templates, Layouts, and Block Templates
- Creating Your Own Default Theme
- Creating Modules with Custom Theme Components
- Fundamentals of Magento Development
 - Rendering
 - Working with Database in Magento
 - Entity-Attribute-Value model
 - Admin HTML

9. Drupal

- Introducing Drupal
 - What Is Drupal?
 - Who Should Use Drupal?
 - Installing Drupal
 - Creating Drupal Content
 - Touring Drupal's Features
- Configuring Drupal
 - Configuring Site Settings
 - Setting Up and Maintaining User Accounts
 - Using Modules
 - Using Blocks
 - Managing Content
 - Managing Comments
 - Configuring Themes
 - Using Categories
- Using the Drupal Core Modules
 - Archive Module
 - Block Module
 - Blog Module
 - BlogAPI Module
 - Book Module
 - Comment Module

- Contact Module
- Drupal Module
- Filter Module
- Forum Module
- Legacy Module
- Menu Module
- Node Module
- Page and Story Modules
- Path Module
- Poll Module
- Profile Module
- Search Module
- Statistics Module
- System Module
- Taxonomy Module
- Upload Module
- User Module
- Adding Contributed Modules
- Adding and Customizing Themes
- Maintaining Your Site

10. WordPress

- Introducing WordPress
- Installing and Configuring WordPress
- Starting to Blog and Building Your Community
- Changing the Look of Your Blog
- Maintaining Your Blog

11. Smarty

- Getting Started
- Smarty for Template Designers
 - Basic Syntax & Variables
 - Variable Modifiers
 - Combining Modifiers
 - Built-in Functions
 - Custom Functions
 - Config Files
 - Debugging Console

- Smarty for Programmers
 - Constants
 - Smarty Class Variables
 - Smarty Class Methods()
 - Caching
 - Advanced Features
 - Extending Smarty With Plugins

12. Introduction to Cake PHP and Zend Framework

- Cake PHP
- Zend Framework

SMARTY