

# PHP Programming (Core)

## Session 1: Introduction

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1. The Origin of PHP.
2. Difference between Client Server Relations.
3. Static and Dynamic website.
4. Introduction of Wamp and Xamp Server.
5. Understand the importance php.ini file.
6. Understand the basic root folder (www).

## Session 2: PHP Basic Syntax

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1. Basics
2. Define PHP script
3. PHP Opening and Closing Tag
4. Describe echo() and print() function
5. Difference between echo and print function
6. Types of error in PHP

## Session 3: PHP Datatype and Variable

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1. Word Processing
2. Data Type in PHP : (integer,string,float,array)
3. Define PHP Constant and Variable
4. Rules for declaring PHP variable
5. var\_dump() function
6. Password encryption and decryption process

## Session 4: PHP Operator and Control Structure

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1. Elements
2. PHP Arithmetic Operator
3. PHP Assignment Operator
4. PHP Relational Operator
5. PHP increment and decrement Operator
6. PHP Logical Operator
7. PHP Ternary Operator
8. If(), else if() and else if condition Statement
9. Nested if()
10. Using the for() loop
11. Using the while() loop
12. Using the do-while() loop
13. Nested loop
14. PHP Switch Case

## Session 5: Functions and Array

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1. What is a function, creating a function, Returning value from function.
2. User-defined functions, Dynamic function calls, Variable scope.
3. Accessing variable with the global statement, Function calls with the static statement.
4. Setting default values for arguments, passing arguments to a function by value.
5. Passing arguments to a function by reference.
6. What is an Array, Types of Array, Indexing Array, Associative Array, and Accessing Array.
7. Looping through an indexing array, looping through an Associative array, Single Dimensional Array, Two Dimensional Array, Multi Dimensional Array.
8. Merging Array, Testing an array by using print\_r() function, Array Predefined function.
9. Describe foreach() loop.

## Session 6: String Manipulation and PHP Super Global Array

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1. How to handle single quote(' ') and double quote(" ")
2. String function
3. Strrstr(), strstr(), stripslashes(),
4. Strcmp(), strcmp() and many more
5. \$\_REQUEST[]
6. \$\_POST[]
7. \$\_GET[]

## Session 7: Basic HTML Tag and HTML forms

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1. Html Introduction, Html Editors, Html Basic Structure.
2. Html Element and Attribute, Html Heading, Paragraph, Link, Images, List, Table, Style.
3. Html Forms Introduction, Forms Element, Form Input Types and Attribute.

## Session 8: Classes and Objects

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1. Object oriented concepts, Define a class, Class attributes, An Object, Creating an object.
2. Object properties, Object methods, Object constructors and destructors, Class constants.
3. Static method, Class inheritance, Abstract classes.
4. Final keyword, Implementing Interface, Object serialization.
5. Understanding Advance and New, Checking for class and method existence.

## Session 9: Introduction to Database

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1. Object oriented concepts, what is RDBMS technology?
2. Introduction to SQL, Connecting to the MYSQL, Selecting a database, Adding data to a table, Displaying returned data on Web pages, Finding the number of rows.
3. Looping through database, Inserting data, Deleting data, Entering and updating data, executing multiple queries, Understanding Primary and Foreign Keys.
4. Understanding Database Normalization, Dealing with Dates and Times, Join Types.

# PHP Programming (Advance)

## Session 1: File Uploading, Java Script and JQuery

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1. What is File uploading, How to File Upload in Folder using PHP.
2. How to insert the image in database, Retrieving Image from Database.
3. Element of file, downloading a file (MODULE OF FILE UPLODING).
4. Introduction to JavaScript and JQuery.
5. Form validation using JavaScript and JQuery.
6. Email validation using JavaScript and JQuery.

## Session 2: XML, AJAX, Email

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1. Introduction to XML, Create a XML file using PHP, Accessing a XML file Data using PHP.
2. Introduction to AJAX, Introduction to XMLHttpRequest Object.
3. Method and Properties of XMLHttpRequest, Application of AJAX in web application.
4. Google search using Ajax, Create Image Gallery using Ajax (MODULE WITH AJAX).
5. Email Sending with PHP, SMTP setting.

## Session 3: Introduction about FTP, Web Services, Frame Work

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1. Introduction about File Upload and Download form Server.
2. What is a Web Services?
3. How to create Web Services.
4. Introduction of SOAP.
5. Introduction of XML-RPC.
6. Basic Concepts of Framework (MVC).
7. Basic Concept of Code Igniter.

## Session 4: CMS, OSCommerce (Open Source Shopping Card)

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1. Introduction of Wordpress.
2. Live Project of Wordpress.
3. Introduction to Shopping Cart.
4. Introduction to osCommerce opensource.
5. Discussion of various module of osCommerce.
6. Working with PHP Live Project (included MVC).