

# Complete



ISO 9001:2008



## INDUSTRIAL TRAINING FROM THE LEADER

WITH MySQL

**FREE**

**WEB DESIGN (Part 1)**

**CORE PHP (Part 2)**

**ADV. PHP (Part 3)**



**FREE**  
SEO  
Tips

**Admission open**



Ph : 0674 - 2544690 / mob : 9861693445  
H.O : M4/46 , Acharya Vihar , Bhubaneswar

Website : [www.litindia.in](http://www.litindia.in) , email : [info@litindia.in](mailto:info@litindia.in) , fb:[www.facebook.com/litindia](http://www.facebook.com/litindia)



## Prologue to LIT

**LIT- Susant K. Routs Centre of Excellence** would like to introduce ourselves as a young but very experienced IT Education Training Institution. As a training Organization, we concentrate on delivering training programs, which focus on building a strong programming foundation by giving in depth and true conceptual knowledge. Our 15 years of dedication into this field has made us possible to create a milestone for the students who want to expose their technical skill and want grow as a successful technocrat in future. Our complete Endeavour behind the students has helped them to ensure a place in TOP Notch IT companies. With the mutual cooperation of our experts, we have been able to give an end to end solution to our students; Corporate along with colleges in case of any problems arise in their workplaces. We feel fortunate being invited by few colleges as their technical partner for the technical & nontechnical grooming of their students for campus Interview. Our syllabus and method of teaching completely focuses on, how to make students feel confident to crack interview for different industries.

## Profile of Trainer

**Mr. Prabin Kumar Rout.**

M.TECH in Computer Science & Engineering

Training Head

Dept. of Web & App.

Head of the Department (LIT Solution)

At: Jagannath Palace, Acharya Vihar, Bhubaneswar.

Contact: 9861693445

Email: [prabina.rout@litindia.in](mailto:prabina.rout@litindia.in)



**Mr. Prabin K Rout a Microsoft certified Trainer AND Pearson VUE Certified Test Administrator**, is working as the Head of the Department of Web & App in LIT- Susant K. Rout's Centre of Excellence along with heading the Department LIT Solution, a Software Developing firm Bhubaneswar. Completed his **M.TECH from BPUT**. His research, interest is on **PHP, WEBDESIGN, Android and .NET**. Being a Corporate Trainer, with his mutual support training he could have been possible to generate good number of developers those who are now placed in good multinational Software firms. His keen interest, dedication towards this development sector & training proved him as successful trainer. Besides this training his creativity in terms of designing websites, developing software for some professional firms earned him many appreciations as a good designer& developer in the field of Software Development.

### **WHY PHP?**

80% of the top 10 million websites use PHP. PHP is particularly popular for freelance work, since many small businesses or non-technical people would want to use WordPress, Wix, or other popular content management systems to set up their websites or shopping carts.

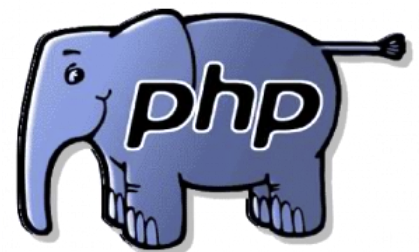
PHP was designed for the web, and it does the job well. Facebook has made serious investments into PHP.

### **Beginner Friendliness**

Cross-Platform

Ease of use

Speed



Open source and Powerful library support

Stable

[PHP community size.](#)

---

### 3rd Largest StackOverflow Community

StackOverflow is a programming Q&A site you will no doubt become intimate with as a coding beginner.

### 5th Largest Meetup Community

At meetups, you can generally network and learn from fellow developers. Meetups often offer mentorship to those who want it as well. There are 1500+ PHP groups at Meetup.com, totaling over 541k members - in terms of programming languages, PHP has the 5th largest Meetup community.

### 5th Most Popular language at GitHub

The more useful projects there are, the more likely someone has already built a function you need and built it well, which will greatly speed up your development process. There are over 500 PHP projects that have over 500 stars on GitHub.

### Companies Using PHP



### Future

PHP has fallen in popularity due to several issues with the language's design as well as the rise of Ruby on Rails as well as Node.js frameworks, though PHP 7 was recently released to fix most of the problems it has been accused of (inconsistency, slowness, etc). Facebook has made a huge investment in PHP which will likely keep it relevant, so it would be interesting to see how all this works out for PHP's adoption rate in the future. Laravel, a PHP framework, seems to be maintain a healthy adoption rate.

### Why PHP From LIT

**Free** SEO Tips

**Free** Web Design

**Incomparable** Syllabus

Learn from **MICROSOFT Certificate Professional**

Learn **secret step** for Campus requirement

Real Industrial Application of using **MVC, CMS, Laravel Framework, AngularJS, REST API , SOAP**

**Fully Practical** class with live demonstration through projector.

Study **Materials**

Grooming for **Project Demonstration** in Campus Interview

Weekly **Workshop** on Respective module for Skill Development

Special Guidance for **LIVE Project**

Weekly **Online Test** for Skill Assessment

An **Earning and Learning** Opportunity to all.

Question and Answer for **Campus**.

Industrial **Training from the leader**

**Tips and Tricks** on Interview etiquettes.

Register once and learn for 5 years (**Free**)

Instant **doubt clearing** inside the classroom itself.

**NO source faculty.** Learn directly from industrial Experts.

### Message for the student must Read

**Decisions never made in a second or minute,** Taking a decision by yourself "saying No" is not going to resolve your worry but puts you down to move ahead in career. If you have a thrust and a little interest to be an engineer in future, so we may get your one day presence at LIT to Council you better for your future growth. We understand your feelings and passion. Our Past 15 years of Extensive dedication & Training towards the field of IT has made us possible to reach lakhs of students and make them possible to achieve their place in top notch IT industries . LIT is walking ahead with a passion & goal to make every **engineering students** feel the real essence of a beautiful Engineering career. If you think you **know**, lets help u groom more and if you think "No " let your life take a chance to Know .

## COMPLETE PHP SYLLABUS

### CORE PHP WITH WEB DESIGN

#### Module 1- Introduction

Introduction to PHP  
Introduction to Web application  
Intranet / internet  
Server and client  
Web page  
HTML and DHTML  
Script  
What is PHP?  
History of PHP  
Versions and Differences between them  
Practicality  
Power  
Why PHP?

#### Module 2- Installation and configuring

Apache, MySQL, PHP  
XAMPP  
WAMP  
LAMP  
Client Server Configuration  
Document Root  
Local host  
Dreamweaver  
Sublime  
Port, IP

#### Module 3- HTML

What is HTML?  
HTML with PHP  
HTML data types  
HTML / HTML 5 Tags

#### Module 4- Style Sheet / CSS

What is Style Sheet?  
Why Style Sheet  
Declaration of Style Sheet  
Apply Style Sheet

Style Attributes

CSS 3

Advance CSS3

#### Module 5- JavaScript

Introduction  
JavaScript declaration  
Syntax and Comments  
Variables, Operators  
Control structure  
Functions in JavaScript  
Events  
DOM  
DOM Variable  
XMLHttpRequest and ActiveX Object  
Response Text and responseXml  
Cookie

#### Module 6- JQuery

Introduction  
Features of JQuery  
Steps to use JQuery  
Functions  
Action/Event  
Selectors

#### Module 7- Ajax

What is Ajax?  
Synchronous and asynchronous  
\$.Ajax, \$.post, \$.get  
Ajax with XML

#### Module 8- Bootstrap

Introduction  
Setting of Bootstrap  
Grid System  
Responsive Helper  
Text, Button, Icon, Menu etc.  
Customize Bootstrap

**Module 9- PHP Basics**

Default Syntax  
 Styles of PHP Tags  
 PHP Page  
 Comments in PHP  
 Php Page and HTML page  
 Output functions in PHP  
 Configuration Settings  
 Error Types  
 Datatypes in PHP

**Module 10- Variable in PHP**

Variable Declarations  
 Variable Scope  
 Scalar Type Compound Type  
 Special Type  
 Variable Variables  
 Scalar type declarations.  
 PHP's Superglobal Variables  
 \$\_GET  
 \$\_POST  
 \$\_REQUEST  
 \$\_FILES  
 \$\_SERVER  
 \$\_ENV  
 \$GLOBALS  
 global

**Module 11- Cookie and Session**

What is state management?  
 Types of State Management  
 \$\_COOKIE  
 Why Cookies  
 Types of Cookies  
 How to Create and Access Cookies  
 \$\_SESSION  
 Session Variables  
 Creating and Destroying a Session  
 Retriving and Setting the Session ID  
 Encoding and Decoding Session Data  
 Auto-Login, Remember Me feature  
 Recently Viewed Document Index

**Module 12- Conversion**

Type conversion in php  
 CType  
 Functions  
 is\_integer, is\_boolean etc.

**Module 13- Control Statements**

Execution Control Statements  
 Conditional Statements  
 if-else, switch-case, while,  
 do-while, for, foreach, break,

continue, return, exit, die, include,  
 include\_once, require,  
 require\_once, declare

**Module 14- Operators**

Arithmetic Operators  
 Comparision Operators  
 Logical Operators  
 Assignment Operators  
 Scope Resolution Operators  
 Null coalescing operator  
 Spaceship operator

**Module 15- Functions**

What is Function?  
 Creating Functions  
 Nested Function  
 Passing Arguments by Value  
 Passing Arguments by Reference  
 Returning values  
 Returning an array  
 Variable function  
 Recursive Functions  
 Predefined function  
 Helper Functions  
 Return type declarations

**Module 16- String with Functions**

Declarations styles of String Variables  
 Searching & Replacing String  
 Creating and accessing String  
 Formatting String  
 Heredoc style  
 Related Library function

**Module 17- MBSTRING**

Introduction  
 Functions  
 Encoding  
 Decode  
 Replace  
 Match  
 Search  
 Position  
 Split  
 Case conversion  
 Substring

**Module 18- Date Time with Functions**

PHP Date () Function  
 Get a simple date  
 Get your time zone  
 Create date with PHP mktime()

**Module 19- Arrays**

What is an Array?  
 How to create an Array  
 Numeric Array.  
 Associative Array  
 Different types of arrays available in PHP  
 Traversing Arrays  
 PHP array functions

**Module 20- BCMATH**

Bcadd, bcsb, bcmul, bcdiv,  
 bcmath, bcpow, bcsqrt,  
 bcsc, bccomp,  
 bcpowmod

**Module 21- OOPS in PHP**

What is OOPS?  
 Class, Object, Inheritance,  
 Polymorphism, abstraction,  
 Encapsulation  
 Concepts of object.  
 Constructor & destructor  
 Static, Constant & Global  
 Constants in PHP  
 Magic Constants  
 Standard Pre-defined Constants  
 User defined Constants  
 Define function  
 Magic Method `_set()` , `__construct()` etc.  
 Object Cloning and Copy  
 Reflections  
 Namespace  
 Anonymous classes

**Module 22- Database [MySQL]**

Introduction to database?  
 What is information and data?  
 How to maintain database.  
 What is MySQL?  
 Integration with MySQL  
 Storage Engines  
 MySQL functions  
 DBMS  
 SQL  
 PHP My Admin  
 Security database

**Module 23- SQL**  
 DDL commands  
 DML Commands  
 DCL Command  
 TCL Commands  
 Question and Answer

**Module 24 - PHP with MySQL**

Connection with MySQL  
 Command  
 Execute  
 Fetch  
 Insert, delete, and update records  
 Security  
 .ini file  
 OOPS with MySQL  
 PHP MySQL functions

**Module 25 - Login Module**  
 Registration code  
 Login code  
 Forget password code  
 Change password code  
 Logout Code  
 Count no of visitors visits your webpages.

**Module 26 - Image Manipulation**

GD Library  
 Functions of GD Library  
 Blank image  
 Recourse of an image  
 Filtering an image  
 Image format, size  
 Create thumb size image  
 Uploading an image  
 Resize an image  
 Compress an image  
 Cropping an image

**Module 27- File Handling and OS**

File and directory  
 Open, close, Read, write, append, delete  
 Uploading and downloading files.  
 File exists  
 File Size  
 Rename  
 Display all files present in a directory.  
 Reading and displaying all images present inside a directory.  
 Displaying all titles inside a directory of pages.  
 Create Directories and Manipulate them  
 Information about Hard Disk  
 Calculating File, Directory and Disk Sizes  
 File Uploading and Downloading using Headers

**Module 28- Error and Exception Handling**  
 Error Logging  
 Error Reporting  
 Types of Exceptions  
 Diff. between Exception & Error  
 Throwing an Exception

PHP's Exception Class  
Custom Exception  
Re-throwing an Exception  
Try, catch

### Module 29- CMS

Introduction  
Introduction CDA  
Introduction CMA  
Custom CMS

### Module 30-WordPress [CMS]

What is WordPress?  
Installation steps  
POST , Media , Comment  
Page , Menu , Header and footer  
Theme ,Plugin  
Widgets  
Visual composer  
WooCommerce

## ADVANCE PHP

### Module 1- Advance JQuery

JQuery validation  
JQuery UI  
Fancy Box  
Coin Slider  
BX Slider  
Table sorter  
Key board  
Image upload  
Sorting

### Module 2- JSON

What is JSON?  
JSON syntax  
Single, 2D JSON object  
JSON with Ajax

### Module 3- API Integration

What is an API?  
API Provider  
API code  
Implementation  
RSS Syntax  
Web Services  
Creating REST Services  
SOAP  
How to consume and use Web Services/APIs in projects

### Module 4- SMS Integration

What is SMS Server?  
SMS Gateway  
SMS Provider  
Sending messages

### Module 5- Curl

Activate curl library  
Curl\_init ()  
Curl\_setopt ()

Curl\_exec ()

Curl\_close ()

### Module 6- Webhosting

Domain server provider  
About litdomain.com  
Domain and Web Server  
Cpanel of Domain and server  
Name Server  
Professional email  
Ex: [info@litindia.in](mailto:info@litindia.in)

Access Webmail

FTP Details

Web hosting Software

Web Hosting

### Module 7- Mailing Integration

Protocols  
HTTP Headers and types  
PHP mail () function  
Sending Mails using PHP  
Mail from localhost  
PHP Mailer  
Email with Attachment  
Definition and usage PHP Mailer

### Module 8- Magneto [CMS]

Introduction  
Installation Steps  
Theme  
Header and Footer  
Pages  
Menu Bar  
Add and Manage Product  
Display products in pages  
Add to cart  
Payment gateway integration

**Module 9 - MVC**

What is MVC?

M-Model

V-View

C-Controller

What is Smarty?

What is template compilation?

Features of Smarty template engine.

Steps to use Smarty.

What is Smarty Class, Object?

Smarty Variable

Smarty Operators

Smarty Control Structures

MVC using Smarty

Common class

**Module 10- XML and XSLT**

What is XML

XML, XML Schema and DTD

DOM interface

Simple XML String

Simple XML File

Reading Information from XML File

Create a XML file from PHP with Database records

XSLT transformations and programming

**Module 11 - Hash**

PHP sha1() function

Md5

Definition and usage

**Module 12- MySql Part 2**

Mysql Workbench

SQL Injection

Uploading and downloading images in Database

TCL , DCL , JOINS

Stored Procedures

Indexing , Triggers

Views , Cursors

**Module 13- PDO**

Introduction to PDO

PDO Object

PDO::Begin Transaction

PDO::Commit

PDO::Query

PDO::exec

PDO::error info

PDO Statement

PDO Exception

**Module 14 - ZIP**

Introduction to ZIP library

Functions

ZipArchive , Zip Create , Zip Entry

Zip Open , Zip Close ,Zip Read

**Module 15 - ODBC**

Creating an ODBC

Retrieving an ODBC

Retrieving fields from ODBC

Closing an ODBC

**Module 16 - Regular Expressions**

Syntax

Definition and Usage

Pattern and modifier

Expression

Validating textboxes,emails,phone numbered etc.

Creating custom regular expressions

**Module 17- Open SSL**

Introduction

Installing/configuring

Predefined constants

OpenSSL functions

**Module 18- POSIX and Authentication**

Introduction posix

Installing/Configuring

Predefined Constants

POSIX Functions

HTTP Authentication

Implementing Authentication in PHP

Authentication Methodologies

**Module 19 - AngularJS**

Introduction

AngularJS Directives , Expression , Application

Object , Array ,Data Binding , MVC ,Filter

\$http , CSS , SQL

DOM , Events

Bootstrap

Login using Angular JS

**Module 20 - Laravel**

What is Framework

What is Composer

Commands of Composer

Route Configuration

Database Configuration

Layout Templates

View

Controllers

Models

Blade

Session , Cookie

Mailing, Validation

AJAX , Query builder



## CONTENT OF PROJECT

<ol style="list-style-type: none"> <li>1. INTRODUCTION             <ul style="list-style-type: none"> <li>• Problem Specification</li> <li>• Approaching the project</li> <li>• About project</li> </ul> </li> <li>2. PROJECT PROPOSAL             <ul style="list-style-type: none"> <li>• Title of the project</li> <li>• Back ground</li> <li>• Present problems</li> <li>• The solutions</li> <li>• Aim of the project</li> <li>• Life cycle</li> </ul> </li> <li>3. SYSTEM ANALYSIS             <ul style="list-style-type: none"> <li>• Problem Specification</li> <li>• Feasibility Study</li> <li>• System Requirements Specification</li> <li>• Existing System</li> </ul> </li> <li>4. SYSTEM REQUIREMENTS             <ul style="list-style-type: none"> <li>• Software Requirements</li> <li>• Hardware Requirements</li> </ul> </li> <li>5. LITERATURE SURVEY</li> <li>6. SYSTEM DESIGN             <ul style="list-style-type: none"> <li>➤ Detailed Design                 <ul style="list-style-type: none"> <li>• UML Diagrams</li> </ul> </li> <li>➤ Database Design                 <ul style="list-style-type: none"> <li>• Dataflow Diagrams</li> <li>• E-R Diagrams</li> <li>• Database Tables</li> </ul> </li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>7. DEVELOPMENT MODEL</li> <li>8. USER INTERFACE</li> <li>9. CODING</li> <li>10. TESTING</li> <li>11. VALIDATIONS</li> <li>12. MAINTENANCE</li> <li>13. FUTURE SCOPE</li> <li>14. AUDITING</li> <li>15. SCREEN DESIGNS</li> <li>16. IMPLEMENTATION</li> <li>17. CONCLUSION</li> <li>18. REFERENCES &amp; BIBLIOGRAPHY</li> </ol>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### MVC Architecture

**Model** : Classes that represent the data of the application and that use validation logic to enforce business rules for that data.

**View** : emplate files that your application uses to dynamically generate HTML responses.

**Controllers** : Classes that handle incoming browser requests, retrieve model data, and then specify view templates that return a response to the browser.



