

# Complete



ISO 9001:2008



## INDUSTRIAL TRAINING FROM THE LEADER

WITH MySQL

**WEB DESIGN**

**CORE PHP**

**ADV. PHP**



**FREE** SEO Tips

**Admission open**

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## 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. Prabina Kumar Rout**

MTECH in Computer Science & Engineering  
Training Head  
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Mr. Prabina kumar Rout, a Microsoft certified Trainer, is working as the Head of the Department of .NET, PHP & WEBDESIGN in **LIT- Susant K. Rout's Centre of Excellence** along with heading the Department LIT Solution, a Software Developing firm Bhubaneswar. Completed his MTECH from BPUT. His research, interest is on .NET, PHP&WEBDESIGN. 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 From LIT**

Incomparable Syllabus  
Learn from MICROSOFT Certificate Professional  
Learn secret step for Campus requirement  
Real Industrial Application of using MVC  
Fully Practical and Interactive Session  
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.  
SEO Tips  
Industrial Training from the leader

## 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 .

### Our Commitment

- Register once and learn for 5 years
- NO source faculty. Learn directly from industrial Experts.
- Special focus on Campus & Semester preparation.
- Instant doubt clearing inside the classroom itself.
- Tips & tricks discussion for campus and semester.
- Fully practical class with live demonstration through projector.
- Special Guidance for live project development.
- Weekly test conducted for skill assessment.
- Tips and Tricks on Interview etiquettes.
- Guidance for Resume Building, Personal Interview & tips on how to clear a successful GD session.
- Online test (Technical & Nontechnical) for skill assessment.

# COMPLETE PHP SYLLABUS

## CORE PHP

### Module 1- Introduction

Introduction to PHP  
 Introduction to Web application  
 Intranet / internet  
 Server and client  
 Web page  
 HTML and DHTML  
 Script  
 What is PHP?  
 PHP history  
 Why PHP?

### Module 2: Apache | MySQL | PHP (AMP)

XAMPP  
 WAMP  
 LAMP  
 Client Server Configuration  
 Physical Path of web page  
 Local host  
 Dreamweaver

### Module 3: HTML

What is HTML?  
 Why html declares  
 HTML with PHP  
 HTML 5 Tags

### Module 4: Style Sheet

What is Style Sheet?  
 Why Style Sheet  
 Declaration of Style Sheet  
 Apply Style Sheet  
 Style Attributes  
 CSS 3

### Module 5: JavaScript

Introduction  
 JavaScript declaration  
 Syntax and Comments  
 Variables, Operators  
 Control structure  
 Functions in JavaScript  
 Events  
 DOM  
 DOM Variable  
 XMLHttpRequest and ActiveXObject  
 ResponseText and responseXml  
 Cookie

### Module 6: JQuery

Introduction  
 Features of JQuery  
 Syntax  
 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 e.t.c  
 Customize Bootstrap

### Module 9: PHP Page

PHP Page  
 Comments  
 Syntax  
 Php Page and HTML page

### Module 10: Variable in PHP

What is Variable?  
 What is Value?  
 What is Data type?  
 Scalar Type  
 Compound Type  
 Special Type  
 Predefine variables  
 \$\_GET  
 \$\_POST  
 \$\_REQUEST  
 \$\_FILES  
 \$\_SERVER  
 \$GLOBALS  
 global  
 \$\_ENV

### Module 11: State Management

What is state management?  
 Types of State Management  
 \$\_COOKIE  
 \$\_SESSION

### Module 12: Conversion

Type conversion in php  
 CType  
 Functions

### Module 13: Control Structure

What is control structure?  
 if-else,switch-case,while,do-while,for,foreach,break,continue,return,exit, die  
 include,include\_once,require,require\_once,de

clare,define

#### **Module 14: Operators**

Arithmetic Operators  
Comparison Operators  
Logical Operators  
Assignment Operators  
Scope Resolution Operators

#### **Module 15: Functions**

What is Function?  
Nested Function  
Function arguments.  
Returning values  
Returning an array  
variable function  
predefined function

#### **Module 16: String Function**

Creating and accessing String  
Searching & Replacing String  
Formatting String  
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: Array with Functions**

What is Array?  
Numeric Array.  
Associative Array  
PHP array functions

#### **Module 20- BCMATH**

Bcadd,bcsub,bcmul,bcdiv,  
bcmmod,bcpow,bcsqrt,  
bcscale,bccomp,  
bcpowmod

#### **Module 21:OOPS**

What is OOPS?  
Class, Object, Inheritance, Polymorphism,  
abstraction, Encapsulation  
Concepts of object.  
Constructor & destructor  
Static , Constant & Global

#### **Module 22: Database [Mysql]**

Introduction to database?  
What is information and data?  
How to maintain database.  
DBMS

SQL  
PHP My Admin  
Security database

#### **Module 23: SQL**

DDL  
DML  
DQL  
JOIN  
Question and Answer

#### **Module 24: PHP MySql**

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

PHP MySQL functions

#### **Module 25: Login Module code**

Registration code  
Login code  
Forget password code  
Change password code  
logout code

#### **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**

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.  
Count no of visitors visits your webpages.

#### **Module 28: Exception Handling**

Introduction  
Types of Exceptions  
Diff. between Exception & Error  
Throwing an Exception  
Custom Exception Handler Class  
Nested Multiple Exception  
Re-throwing an Exception  
Try, catch

### **Module 29– CMS**

Introduction  
Introduction CDA  
Introduction CMA  
Custom CMS

### **Module 30: CMS(Wordpress)**

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

### **Module 31: Dreamweaver**

Exploring Dreamweaver Interface  
Planning & Setting Web Site Structure  
Tables  
Image Link  
Creating and working with Templates  
Working with Spry Menu Bar  
Creating Tabbed Panel  
Creating Collapsible panel

### **Module 32: PHP WITH LAMP**

Introduction to Linux  
LAMP (Linux, Apache, MySQL, PHP)  
Linux Commands  
Vi Editor

## ADV. PHP

### **Module 1: Advance JQuery**

JQuery validation  
jQuery UI  
FancyBox  
Coin Slider  
Table sorter  
etc.

### **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

### **Module 4: SMS**

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: Web Hosting**

Domain server provider  
About litdomain.com  
Domain and Web Server  
Cpanel of Domain and server  
Name Server  
Professional email  
Ex: info@litindia.in  
Access Webmail  
FTP Details  
Web Hosting

**Module 7: Mailing Integration**

PHP mail () function  
Definition and usage  
PHP Mailer  
Definition and usage PHP Mailer

Sending an Email

**Module 8: Magento**

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: SMARTY**

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

**Module 10: MVC**

What is MVC?  
M-Model  
V-View  
C-Controller  
.ini file  
Database connectivity  
Model Class file  
View pages  
Controller

**Module 11: XML**

XML, XML Schema and DTD  
DOM interface  
Simple XML String  
Simple XML File  
XSLT transformations and programming

**Module 12:Open SSL**

Introduction  
Installing/configuring  
Predefined constants  
OpenSSL functions

**Module 13: Hash**

PHP sha1() function  
Md5  
Definition and usage

**Module 14: MySQLi**

Introduction to PHP MySQLi  
Installation Configuration  
PHP MySQLi functions

**Module 15- PDO**

Introduction to PDO  
PDO Object  
PDO::Begin Transaction  
PDO::Commit  
PDO::Query  
PDO::exec  
PDO::error info  
PDO Statement  
PDO Exception

**Module 16: ZIP**

Introduction to ZIP library  
Functions  
ZipArchive  
Zip Create  
Zip Entry  
Zip Open  
Zip Close  
Zip Read

**Module 17: ODBC**

Creating an ODBC  
Retrieving an ODBC  
Retrieving fields from ODBC  
Closing an ODBC

**Module 18: EREG**

Syntax  
Definition and Usage  
Pattern and modifier  
Expression

## **Module 19: AngularJS**

- Introduction
- AngularJS Directives
- AngularJS Expression
- AngularJS Application
- AngularJS Object
- AngularJS Array
- Data Binding
- AngularJS MVC
- AngularJS Filter
- \$http
- AngularJS CSS
- AngularJS SQL
- AngularJS DOM
- AngularJS Events
- AngularJS API
- AngularJS Bootstrap

## **Module 20: Laravel Framework**

- 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

### 1. INTRODUCTION

- **Problem Specification**
- **Approaching the project**
- **About project**

### 2. PROJECT PROPOSAL

- **Title of the project**
- **Back ground**
- **Present problems**
- **The solutions**
- **Aim of the project**
- **Life cycle**

### 3. SYSTEM ANALYSIS

- **Problem Specification**
- **Feasibility Study**
- **System Requirements Specification**
- **Existing System**

### 4. SYSTEM REQUIREMENTS

- **Software Requirements**
- **Hardware Requirements**

### 5. LITERATURE SURVEY

### 6. SYSTEM DESIGN

- **Detailed Design**
  - **UML Diagrams**
- **Database Design**
  - **Dataflow Diagrams**
  - **E-R Diagrams**
  - **Database Tables**

### 7.DEVELOPMENT MODEL

### 8.USER INTERFACE

### 9.CODING

### 10.TESTING

### 11.VALIDATIONS

### 12.MAINTENANCE

### 13.FUTURE SCOPE

### 14.AUDITING

### 15.SCREEN DESIGNS

### 16.IMPLEMENTATION

### 17.CONCLUSION

### 18.REFERENCES & BIBLIOGRAPHY

### 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.

