

**CETPA INFOTECH PVT.  
LTD.  
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# **CETPA INFOTECH PVT. LTD.**

## **CURRICULUM OF PHP**

### **Hyper Text Markup Language (HTML)**

- Introduction To HTML
- Structure of HTML
- Attributes & Values
- Comments, Header
- Tags Image Tag
- Link Tags (Text & Image) Marquee Tag
- List Tag (Ordered & Unordered) Table Tag
- Form Tags
- Audio , Video
- Tags About Iframe
- Block Level and Inline Elements
- DIV Tag

### **HTML5 New Tags**

- Header , Footer , Nav
- Section , Article ,
- Aside
- Form
- Elements

### **Style Sheet (CSS)**

- Types of style sheet
- About CSS Selectors
- About CSS Properties
- Background Properties
- Box Properties
- Border Properties
- Positioning Properties
- CSS Menu Design
- CSS Animation

### **HTML5 New Tags**

- Header , Footer
- Section
- Article
- Aside New Form
- Elements

### **Style Sheet (CSS)**

- Types of style sheet
- About CSS Selectors

- About CSS Properties
- Background Properties
- Box Properties
- Border Properties
- Positioning Properties

### **Bootstrap (Responsive Design)**

- Introduction to Responsive Design
- Introduction to Bootstrap
- Bootstrap Grid System
- Grid Classes
- Equal Columns , Unequal Columns
- Layout Creation

### **PHP language building blocks**

- Installation of PHP
- PHP delimiters
- Variable initialization with PHP
- PHP Data types
- PHP Constants
- PHP Operators

### **Conditional Statements**

- If else
- If else if else
- Nested If
- Switch Case
- Jump Statements ( Break , Continue , Exit )

### **Looping (Iteration)**

- For loop
- While loop
- Do While Loop
- Nested Loop

### **Introducing ARRAY**

- Index based arrays
- Associative Array

- Multidimensional arrays

### **Manipulation user input**

- Presenting the user with input options via different HTML form elements
- Retrieving form data with \$\_POST, \$\_GET and \$\_REQUEST arrays
- Preserving Data in Form inputs

### **Function**

- Introducing Functions
- Defining functions
- Using parameters
- Returning values
- Call By Value & Call By reference
- Reusing Codes
- Array , String , Math , Date functions
- Super Global Array/Variables

### **JavaScript (JS)**

- Introduction to JavaScript Variable , Operators , Conditions Looping and Array
- Introduction to functions
- Pop-up Boxes (Alert , Confirm , Prompt)
- Introduction to functions
- Form Handling DOM Manipulation Pre- defined functions
- Introduction to Objects
- What is property and methods
- String , Math , Navigator , Date , Array , Window Objects
- Introduction to ES6

### **Introducing with the file system (file handling)**

- Saving data for later using file system.
- Opening a file
- Creating and Writing to a file
- Creating and Writing to a file
- Using other useful file functions
- Create a directory
- Remove a directory

- File Uploading & Downloading
- File uploading Concepts
- Multiple File Upload

### **State Management**

- Session, Cookie , Query String , Hidden Field
- What is Session ?
- Starting a Session
- Registering Session variables Using Session Variables
- Destroying the variables and Session
- What is a Cookie?
- Setting Cookies with PHP Using Cookies with Sessions
- Deleting Cookies
- Implementing Query String

### **MySQL Database**

- Relational Database Concept and technology
- Web Database Design
- Web Database Architecture
- Creating a MySQL Database
- Creating Database
- Tables Column
- Data Types
- Implementing Insert/Delete/Update and select
- Query Aggregate
- Functions
- Having and Group By Clause Joining Table

- Implementing Primary key, Unique Key, Composite key, foreign key, default constraint etc.
- Joining Table
- Dropping Tables and Databases
- Introduction to Phpmyadmin

### **Database Connection**

- My SQL Connectivity
- Procedural Connectivity
- Object Oriented Connectivity
- PDO Connectivity

### **Jquery with AJAX**

- jQuery introduction
- jQuery Selectors , events , DOM , animations
- jQuery accordions, carousel, tab
- Ajax Implementation
- CRUD Operation with AJAX

### **Object Oriented PHP**

- Object oriented concepts
- Classes, objects and operations
- Class attributes
- Access Modifier Constructor & Destructor
- Inheritance Static method Type
- Hinting Object
- Cloning Abstract class
- Final keyword Inheritance
- Implementing interface Magic methods in PHP

### **Advance PHP Techniques**

- Implementing Captcha PDF Generation
- Excel or CSV Generation Email with PHP
- Implementing Pagination
- SQL Injection
- Web Services with JSON
- Payment Gateway
- Integration Error tracking and debugging
- Exception Handling

### **Developing a dynamic web application**

#### **CMS Introduction Getting Started with Wordpress**

- Installation Setup
- Wordpress Structure

#### **Creating Content with Wordpress**

- Wordpress Posts Vs. Pages Categories Vs. Tags
- Media Manager Create Custom Menus

#### **Customizing Your Wordpress Site**

- How to Use Themes Customize theme
- How to use Plugins and Widgets Using Wordpress
- Screen Options Managing Wordpress Comments

#### **Wordpress Site Management**

- Upgrading Wordpress
- Move Web Content with Wordpress
- Import and Export
- Managing User Roles
- Wordpress Security Briefing

#### **Wordpress Setting**

- Word Press General Settings
- Word Press Writing Settings
- WordPress Reading Settings
- WordPress Discussion Settings
- WordPress Media Settings
- How to Use WordPress Permalinks

#### **Theme Customization**

- How to customize a theme
- What is a Child Theme and How to Create and Use it
- How to create Custom page, category templates

## Wordpress Plugins

- How to install a plugin
- How to modify the plugin
- How to develop a simple plugin
- How to connect your plugin with database
- Implementing WooCommerce
- Creating a E-commerce Web Application.
- Host Your Wordpress Website

## CodeIgniter

### Introduction

- Why Framework
- Introduction to MVC
- Folder Structure
- Configuration Setting
- Routing Controllers
- Introduction Of Controller
- CI\_Controller, Request Parameters, Actions Controller
- Methods & Attributes
- Creating Core Controller Class

### Views

- Creating Views
- Layouts (Use Image, CSS, Bootstrap, JS)

- Calling in controller
- Helpers (FormHelper, HTML Helpers) in Views

### Models

- Creating Model
- How to Load in controller
- Calling in Controller
- Apply The Business logic
- Creating Core Model Class

### Helpers

- Introduction
- How to load Helper
- Apply To Controller and Views
- Creating Own Helper
- How to override other Helper

### Libraries

- Introduction
- How to load Library
- How to override other Libraries

### Database

- Introduction
- How to Configure
- Active Records and Query Builder
- CRUDS operation (Create Insert Update Delete and Search)
- Form Validation, Session, Pagination, Uploading

## Develop a Web Application

### Laravel

- Introduction of Laravel
- MVC Laravel routing
- Installing Composer and Command line tool
- Blade essentials
- Resource
- Laravel Route groups and filters
- Working with Database
- Eloquent CRUD
- Laravel Query Builder
- Eloquent relations
- Laravel Migrations
- Laravel Database
- Seeding Forms and Validation
- Setting up laravel form

- Validation a form
- Creating Admin Pos
- Creating a Frontend
- Setting up the Blog
- Securing the admin panel
- Handling routing
- Establishing an HTML View
- Creating Tables with Schema Builder
- Enabling Version Control with Migrations
- Querying with eloquent
- ORM Displaying

- Laravel Code
- Working with Blade
- Templating Defining
- Conditions Integrating form elements
- Setting up Authentication
- Creating a registration form
- Securing Content
- Authenticating users in Laravel Application

**Develop a Web Application**