

# Diploma in PHP & Web Development

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## 1. Programming Fundamental

### Programming in C

- Introduction to Programming
- Data Types, Operators
- C Instructions and Rules for Writing
- Control Structures
- Functions
- Pointers
- Array, Strings
- File I/O
- Structures and Union

### Programming in C++

- OOP's Concepts.
- References & const.
- Function Overloading.
- Inline functions.
- Namespace.
- Constructors, Destructors.
- Const member Functions.
- Static data member.
- Static member Functions.
- Operator Overloading.
- Conversion Functions.
- Exceptions Handling.
- Manipulators.
- Inheritance.
- Polymorphism.
- Virtual Functions.
- Abstract Class.
- RTTI.
- Templates.
- STL.

## 2. Database

- Database Connections
- Managing Database Connections
- Performing Queries
- Closing Connection
- Create Database & Table
- Drop Database & Table
- Insert Record
- Select Record
- Deleting Record
- Modifying Record
- WHERE Clause
- Using Operators
- Sorting Records
- Eliminating Duplicates
- Grouping Records, Having Clause
- Joining Tables
- Sub queries
- Using Table And Column Aliases

## 3. O/s and Networking

- Introduction
- Operating-System Structures
- Process Management
- Memory Management
- Storage Management
- Protection And Security
- Distributed Systems
- Special -Purpose Systems
- Network Basics
- Classification of Networking
- Network Topology
- TCP/IP Fundamentals

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## 4. PHP Technology

- Introduction to Web Technology
- Introduction to CSS
- Introduction to PHP
- Development Concept
- Control Structure:
- Looping Structure
- Function
- File Inclusion
- Array
- String Function
- Working with File
- OOPs Concept
- State Management
- Error Handling & Exception

## 5. HTML 5

- Getting started with HTML
- General
- HTML/XHTML
- Formatting
- Tables
- Images
- Hyperlinks
- Design and layout techniques
- Cascading Style sheets
- Introduction to HTML
- General
- HTML basics
- Images
- Hyperlinks
- Design and layout techniques
- Creating HTML emails
- Cascading Style sheets
- Beyond the basics

## 6. CSS 3

- Introduction to CSS
- Content
- Layout
- Colors
- Borders
- Transforms
- Animations
- Media Queries
- Script

## 7. Advance Concepts

- Java Script
- Jquery
- Wordpress
- Joomla,Drupal

## 8. Project

- Project Document
- Project Design
- Technical Document
- Functional Document
- Development Phases
- Testing
- Implementation
- Maintenance

## 9. Web Hosting

- Websites and Domain Names
- What to look for when buying Web space
- Search engine optimization
- Pay per click advertising
- Sitemaps

## 10. Certification

- Applying for certification

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- Preparation for certification
- Certificate guidance

## 9. Aptitude Test Preparation

- Abstract reasoning
- Verbal reasoning test
- Numerical Reasoning Test
- Spatial reasoning
- Mechanical reasoning

## 10. C.V. and Interview

- CV preparation
- Mock Interviews

## 11. Live Scenario

