



Information Booklet

Course Name:
Diploma in LAMP
Course Code: D6



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Diploma in LAMP

1. Introduction:

PHP: Hypertext Preprocessor is a widely used, general-purpose scripting language that was originally designed for web development to produce dynamic web pages. PHP is available as a processor for most modern web servers and as standalone interpreter on most operating systems and computing platforms.

2. Eligibility:

Graduate in any discipline or equivalent or diploma

3. Duration:

260 Hours. Two Hours each day

- Theory 60 hours
- Practical 200 hours

4. Course Details:

Type of course	Professional IT Course
Syllabus	<p>Programming Concepts Flowcharts Algorithms Data Flow Diagrams Software Life Cycle</p> <p>HTML</p> <p>INTRODUCTION The World Wide Web (WWW) HTML History Hypertext and Hypertext Markup Language Microsoft Front Page</p> <p>HTML DOCUMENTS Dividing the document into 2 parts. Headers Body</p> <p>Tags Representing 2 types of tag (odd and even)</p> <p>Elements of an HTML Document Text Elements Tag Elements Special Character elements</p>

STRUCTURAL ELEMENTS OF HTML DOCUMENTS

Header tags

Body tags.

Paragraphs

Titles

Lists

Numbered list

Non-Numbered lists

Definition lists

FORMATTING HTML DOCUMENTS

Logical styles (source code, text enhancements, variables)

Physical Styles (Bold, Italic, underlined, crossed)

MANAGING IMAGES IN HTML

Image format (quality, size, type, ...)

Importing images (scanners)

Tags used to insert images

Frames

CREATING TABLES IN HTML DOCUMENTS

Tags used in table definition

Tags used for border thickness

Tags used for cell spacing

Tags used for table size

Dividing table with lines

Dividing lines with cells

Cell types

Titles cells

Data cells

HYPertext AND LINK IN HTML DOCUMENTS

URL/FTP/HTTP

Types of links.

Internal Links

External Links

Link Tags

Links with images and buttons

Links that send email messages

SPECIAL EFFECTS IN HTML DOCUMENTS

Text fonts

Sensitive Images

Tip tables
Page background
 Variable
 Fixed
Rotating messages (Marquee)
Counters

MULTIMEDIA

Audio files and acceptable formats (AIFF, AU, MIDI, WAVE)
 Inserting audio files
Video files and acceptable formats (MPEG, Quick Time, Video for Windows).
 Inserting video files
 Screen control attributes (WIDTH, HEIGHT, ALIGN).
 Start control sttributes (START, FILEOPEN, LOOP, LOOPDELAY, MOUSEOVER).

MANAGING FORMS

Interactive forms
Creating data entry forms

LINUX

Linux History and Operation
 The Evolution of Linux
 The GNU Movement and the GPL
 Linux Operations as a Server
 The Architecture and Structure of Linux

Installing and Configuring Linux
 Introduction to Installation and Media Types
 Performing a Custom Linux Server Installation
 Run Levels and the Startup/Shutdown Sequence
 Logging In and Out of a Linux System

Shells, Commands, and Navigation
 Introduction to Linux Shells, Commands, and Navigation
 Navigating the Linux Filesystem
 Using Shell Variables in Bash
 The Bash Shell
 Commands for Obtaining System Information
 Examining File Contents
 Customizing your Shell Environment
 Manipulating Commands and Their Input/Output

Getting Help

Common Text Editors

- Using the Emacs Editor

- Using the vi Editor

- Using the Pico Editor

- Manipulating Text Files From the Command Line

- Using Awk

- Using Sed

Linux Printing

- The Line Printer Daemon (lpd)

- Printing

- Administering a Linux Printer Queue

Users and Groups

- Introduction to Users and Groups

- Essentials of Effective User, Group, and Password Management

The Ext2 Filesystem

- Introduction to the Second Extended (Ext2) Filesystem

- Partitioning and Formatting

- Mounting and Configuring Filesystems

- Administering Ext2 Filesystems

- Understanding Permissions

The Linux Kernel

- Introduction to the Linux Kernel

- Using Kernel Modules

- Compiling the Linux Kernel

- Installing the Linux Kernel

Shell Scripting

- Introduction to Shell Scripting

- Variables

- Basic Control Structures

- Loops

- Command-line Arguments

APACHE

- Introduction to Apache Web Server

- Apache Web Server Evolution

- Apache Architecture and Features

- Apache's Role in the Internet

Installation and Configuration

- Build and Install Apache Web Server
- Verify Initial Configuration
- Start, Stop, and Status the Apache Server Process
- Configure Apache Core Modules

Security

- Basic Security with Apache
- Host-based Authentication
- User-based Authentication
- Secure Sockets Layer (SSL)

Delivering Dynamic Web Content

- Apache's Role in the Dynamic Web
- Server Side Includes (SSIs)
- Configure Apache Web Server to Support CGI
- Write CGI Programs
- CGI Alternative Technologies

Virtual Hosts, Redirection, and Indexing

- Virtual Hosting with Apache
- Virtual Host Configuration
- Redirection
- Directory Indexing

Proxy Servers and Firewalls

- Apache Proxy
- Configuring Proxy Services
- Firewalls and Apache
- Firewall Architecture Models

Monitoring Apache Web Server

- Error Logs
- Logging HTTP Access
- Web Server Status and Server Information
- User Tracking

Improving Performance

- Improve System Performance
- Apache Performance Strategies
- Process Improvements and Directives

Proxy Caching**MYSQL**

Introduction

- MySQL Database Products
- MySQL GUI Tools
- MySQL Drivers
- MySQL Services
- MySQL Training
- MySQL Certification
- MySQL Consulting
- MySQL Support
- Community vs Enterprise
- MySQL Partners
- Supported Operating Systems
- MySQL Certification Program

Applications servers

- Apache Server
- MySQL Server

PHP Foundations

- Delimiting PHP Code
- Comments
- Construct Feedback
- PHP Data Types
 - Scalar Data Types
 - Compound Data Types
 - Special Data Types
- Flow Control Statements
 - If...else..... elseif
 - Switch
 - While
 - Do...While
 - For
 - Foreach
 - Break and Continue
 - Other control statements
- User Defined Functions
- Cookies, Sessions and forms
- Adding , appending and deleting a file
- Manipulation of strings, loops and string statements
- Arrays & Functions
- PHP database ODBC**
 - Creating an ODBC connection
 - Creating an ODBC

Retrieving records, fields
Closing an ODBC connection

MYSQL FOUNDATIONS

MySQL General Architecture
 MySQL Server
 Client Programs
SQL Parser and Storage Engine Tiers
 Storage Engine Breakdown
The mysql Client
 Using mysql Interactively
 Statement Terminators
MySQL Query Browser
 Using the Connection Dialog
 The MySQL Query Browser Window

MANAGING DATABASES

Database Properties
Database Design Practices
MySQL Identifiers
Creating Databases
Drop a Database

MANAGING DATABASE TABLES

Table Properties
MySQL Data Types
 Numeric Data Type
 String Data Types
 Temporal Data Types
Creating Database Tables
 Displaying Table Creation Information
 Table Properties
 Column Options
 Temporary Tables
Altering Tables
 Add Columns
 Remove Columns
 Modifying Columns
 Changing Columns
 Renaming Tables
 Emptying Tables
Drop Tables
Table Indexing
Foreign Keys

SQL SELECT COMMANDS

SELECT Statements
 SELECT with DISTINCT
 SELECT with WHERE
 SELECT with ORDER BY
 SELECT with LIMIT
 SELECT with MySQL Query Browser
Aggregating Query Results

SQL EXPRESSIONS

SQL Expressions

- Numeric Expressions
- String Expressions
- Temporal Expressions

Functions in SQL Expressions

- Comparison Functions
- Control Flow Functions
- Numeric Functions
- String Functions
- Temporal Functions
- NULL-Related Functions

SQL DML COMMANDS

The INSERT Statement

- INSERT with SELECT
- INSERT with LAST_INSERT_ID
- INSERT with NULL Values

The UPDATE Statement

- UPDATE with SET
- UPDATE with ORDER BY
- UPDATE with LIMIT

The REPLACE Statement

- INSERT with ON DUPLICATE KEY UPDATE Instead of REPLACE

The DELETE Statement

SQL JOINS

What is a Join?

Inner Joins

Outer Joins

- Left Outer Join
- Right Outer Join

Using Qualifiers and Aliases

- Qualifying Column Names
- Qualifying and Aliasing Table Names
- A SelfJoins

Multi—Table UPDATE and DELETE Statements

MYSQL DATA DRIVEN WEB BASED FORMS

Connecting to MySQL

Retrieving Data

The Web Interface

Update Existing Data

Delete Data

Inserting Data

MySQL Metadata

- PHP Functions for Retrieving Metadata

MySQL Error Information

SESSION HANDLING

Learning Objectives

What is Session Handling?

Session Handling Tasks

	<p>Encoding/Decoding Session Data PHP Session Handling with MySQL</p> <p>OBJECT ORIENTED PROGRAMMING Benefits of OOP Working with Objects Exception Handling</p> <p>ESTABLISHING USER AUTHENTICAAION HTTP Authentication PHP Authentication Hard—Coded Authentication File-Based Authentication Database Authentication</p> <p>SECURING PHP AND MYSQL Building a Wall of Security PHP Configurations Data Encryption Securing the MySQL Server (mysqld) MySQL Access Privilege System MySQL versus Operating System Accounts Creating and Dropping User Accounts Setting Account Password Privileges Types of Privileges that MySQL Supports The Grant Tables Granting Privileges The GRANT Statement The SHOW GRANT Statement Revoking Privileges Changing Account Passwords</p> <p>Web Application project</p>

5. Fee:

Rs. 15000/- (exclusive of all the taxes)