Certificate Course in Web Application Technologies (Linux, Apache, My SQL, PHP) with Project

Objective of the Course:

The objective of this course is to provide the necessary knowledge to design and develop dynamic, database-driven web applications using PHP version 5. Students will learn how to connect to any ODBC-compliant database, and perform hands on practice with a MySQL database to create database-driven HTML forms and reports etc. Students also learn how to configure PHP and Apache Web Server. Comprehensive lab exercises provide facilitated hands on practice crucial to develop competence web sites.

Learning Outcomes:

After the completion of course, students will get hands on experience on various techniques of web development and will be able to design and develop a complete website.

Duration of the Course	80 hrs
Minimum Eligibility Criteria and Prerequisite, if any	Basic Knowledge of any programming language

S. No	Topic	Hours
1.	Introduction to Linux & its features, commands	2 hrs
2.	Basics of web application development	2 hrs
3	Basics of HTML	2 hrs
4.	Introduction to PHP, embedding of PHP into HTML program, Data Types, Variable, Operators, Decision Making, Functions and Array in PHP , String Handling, Echo function, conditional tag (If Else), Loop etc.	12 hrs
5.	OOPS Concepts with PHP	2 hrs
6.	PHP Forms, File Handling, Cookies and sessions, Security features implementation, Validation and Error Handling, file handling, Creating basic newsletter application, captcha Implementation.	14 hrs
7.	Discussion on Data Base Concepts using PHP –MySQL and basic CRUD operation, Data backup recovery, query optimization and basics of data base administration.	6hrs
8.	Live Project using LAMP	40hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Project / Lecture Hours:	40 hrs
	Total Hours:	80 hrs

Books Recommended for Reading and Reference:

1. PHP: The Complete Reference-Steven Holzner
2. Open Source Development with LAMP- James Lee