SUKKUR INSTITUE OF BUSINESS ADMINISTRATION

COURSE OUTLINE:

Web Development with Php and MySQL

Mr. Sadam Hussain & Mr. Imtiaz Ahmed Mahar
Email: sadam.hussain@iba-suk.edu.pk

Course Introduction

PHP is the most popular server-side language used to build dynamic websites, and though it is a very extensive language. Learn PHP & MySQL web development from from IBA Sukkur by understanding PHP functions and create your very own applications & projects using PHP & MySQL.

The stateless web (HTML, CSS and JavaScript) can only do so much without a dynamic language such as PHP to add the ability to interact with the web server. Students will learn how to make pages dynamic based upon user interaction, interacting with HTML forms and store and retrieve information from local data sources which include a database. During the course, students will walk through the development of a complete content management system Web application. They will receive clear, step-by-step, instructions demonstrating how to create a complete Web site capable of dynamically displaying data from a MySQL database.

Course Objectives

- Start learning web development today to become a web developer tomorrow.

- Learn to create your own apps using PHP & MySQL from scratch with practical examples.

- Become a PHP/MySQL web developer to create small applications yourself.

- Create a dynamic website using PHP and MySQL in no time

Learning Outcomes

- This course covers basic programming and Object oriented techniques used in Php. It teaches them the fundamentals of Php language and syntax, introduces them to web development with most used web development language. It will help them to develop applications with different technologies and database driven applications

Subject Market/Potential Market

- This course is specially designed for students who are interested in learning the hottest programming language php and specially those who are interested in Web development with minimum entry requirements.

- Students who don't have any programming experience or programming knowledge in using object oriented techniques are encouraged to attend this course.

Topic Outline/Syllabus

Sessions	Topic	Description
1-2	**Introduction**	Introduction to course , outcomes Aims objective. Introduction to Web , Web applications Introduction to Database and its types Introduction languages , scripting languages
2-3	**Purpose of PHP MySQL**	Why use PHP and MySQL? The PHP programming environment Overview of SQL
4-5	**Setting up the Environment**	Decisions about a testing environment WAMP/MAMP Installing Apache, PHP and MySQL on your computer Testing on a remote Server Deciding on Development tools Using PHP MyAdmin

5-6	**Overview of PHP**	Setting up a PHP page The phpinfo() function Learning basic syntax Echoing HTML output to the browser The importance of comments Using single and double quotes/ Comments
6-7	**Variables in PHP**	Using loose typed variables Assigning variables Overview of numeric, string and other types Assigning a variable to itself
7-8	**Global Variables & Data Types**	Global Variables in PHP Data Types in PHP. Types casting
8-9	**Super Global Variables in Php**	$GLOBLAS $SERVER $_POST $_GET $_POST
9-10	**Php Operators**	Arithmetic operators Logical operators Comparisons Operator precedence
10-11	**Numbers in PHP**	Making calculations Using built-in numeric functions Incrementing and decrementing
11-12	**Introduction to Strings and its function**	Concatenating strings Trimming strings Removing slashes and other harmful characters String functions
12-13	**Introduction to Arrays and multidimensional Arrays**	Numerically Indexed Array Associative Arrays Sorting Arrays Recording Arrays
13-14	**Control structures in PHP**	The If statement FOR loops While loops The Switch
14-15	**Transferring information between PHP pages**	GET and POST Different form field types Self-referencing forms Form handlers

15-16	**Database fundamentals/Databases with Php**	Structuring a database Using tables Table relationships Common data types
16-17	**Creating a database**	Using PHPmyAdmin Adding a table Populating a table with types and data Browsing a table
17-18	**Getting PHP to connect to MySQL**	Using the mysql_connect() function Using the mysql_select_db() function Testing a connection Writing a sample error trap
18-19	**Querying MySQL using PHP/ Retrieving from database**	Writing SQL queries Using Select, Insert, Update and Delete Querying MySQL and returning results Interpreting the returned array
19-20	**Introduction to Cookies & Sessions in PHP**	Differences How sessions are more secure than cookie Session needs extra spaces , unlike cookie Session start() Creating cookies
20-21	**Project/ Building a Web Application**	Creating pages to: Add entries Modify entries List entries Filter entries