



CONTENTS

**PHP / MYSQL: LEVEL I (BASICS).....2**

OBJECTIVES.....2

TARGET GROUP.....2

TRAINING METHOD.....2

COURSE DURATION.....2

COURSE BREAKDOWN.....2

*PART1: UNDERSTANDING THE PHP/ MYSQL BASICS.....2*

*PART2: REUSING CODE AND WRITING FUNCTIONS.....3*

*PART3: INTRODUCTION TO DATABASE.....3*

**PHP / MYSQL: LEVEL II (ADVANCED).....4**

OBJECTIVES.....4

TARGET GROUP.....4

TARGET METHOD.....4

COURSE DURATION.....4

COURSE BREAKDOWN.....4

*PART 1: FUNCTIONS.....4*

*PART 2: WORKING WITH THE FILE SYSTEM.....5*

*PART 3: COMPLEX FORM PROCESSING.....5*

*PART 4: WORKING WITH REGULAR EXPRESSIONS.....5*

*PART 5: CLASSES AND OBJECTS.....6*

*PART 6: COOKIES.....6*

*PART 7: SESSION.....6*

*PART 8: SIMPLE JQUERY AJAX MODULE.....7*

**PHP / MYSQL : LEVEL III (LARAVEL).....7**

OBJECTIVE.....7

TARGET GROUP.....7

TARGET METHOD.....7

COURSE DURATION.....7

COURSE BREAKDOWN.....7

*INTRODUCTION TO LARAVEL.....8*

*Routing.....8*

*Controlllers.....8*

*Request.....8*

*Response.....8*

*Database.....9*

*View.....9*

*Laravel Forms & Html Component.....9*



FEE STRUCTURE .....	10
SCHOLARSHIP/GRANT .....	10
HOW TO APPLY .....	10

## PHP / MYSQL: LEVEL I (BASICS)

### OBJECTIVES

- Provide a basic understanding of programming in PHP
- Learn how to use MySQL as a database system
- Learn to built applications integrating PHP/MySQL
- Gain an overall understanding of building simple applications using PHP/MySQL

### TARGET GROUP

- Fresh graduates willing to learn how to program in PHP/MySQL
- Working professionals who want gain an understanding of applications built using this particular technology

### TRAINING METHOD

- Self-study materials
- Assignments
- For each module, a minimun of 60% will be covered in the lab and remaining portion will be shared in the class.

### COURSE DURATION

- 3 weeks (30 hours)

### COURSE BREAKDOWN

#### PART1: UNDERSTANDING THE PHP/ MYSQL BASICS

- How PHP works
- The PHP.ini file
- Basic PHP syntax
  - PHP tags
  - PHP Stamements and Whitespaces



- Comments
- PHP functions
- Hello Worlds
- Variables
  - Variable types
  - Variables Names
  - Constant
- PHP Operators
- Single quote vs. Double quotes
- Flow controls
  - If statements
  - For loop
  - While loop
  - Case statement

---

## PART2: REUSING CODE AND WRITING FUNCTIONS

- Including files and Writing functions
  - Require
  - Require\_once
  - Include
- User functions
  - Defining and calling functions

---

## PART3: INTRODUCTION TO DATABASE

- Basic difference between database and file system
- Introduction of MySQL
- Connection mechanism using PHP and MYSQL
- Create table, select, insert, update and delete command
- Making form with JQuery validation and inserting in table
- Displaying all rows of table and disable in HTML table format.
- Edit records using HTML form.
- Delete records
- Single-Dimensional Arrays
- Multidimensional Arrays
- Casting Arrays
- Associative Arrays
- Accessing Arrays
- Getting the size of an array
- Looping through an array
- Looping through an associative array



- Examining array
- Joining arrays
- Sorting arrays
- Working Examples(Lab)

#### DISCLAIMER

Please note that Deerwalk Institute of Technology reserves the right to change the course syllabus of DWIT Training - PHP / MySQL BASIC course at any time without prior notification.

### PHP / MYSQL: LEVEL II (ADVANCED)

#### OBJECTIVES

- Provide a basic understanding of programming in PHP
- Learn how to use MySQL as a database system
- Learn to built applications integrating PHP/MySQL
- Gain an overall understanding of building simple applications using PHP/MySQL

#### TARGET GROUP

- Fresh graduates willing to learn how to program in PHP/MySQL
- Working professionals who want gain an understanding of applications built using this particular technology

#### TARGET METHOD

- Self-study materials
- Assignments
- For each module, a minimum of 60% will be covered in the lab and remaining portion will be shared in the class.

#### COURSE DURATION

- 5 weeks (50 hours)

#### COURSE BREAKDOWN

#### PART 1: FUNCTIONS



- What is a function
- Defining a function
- Returning value from function
- User-defined functions
- Variable scope
- Accessing variable with the global statement
- Function calls with the static statement
- Setting default values for arguments
- Passing arguments to a function by value
- Passing arguments to a function by reference
- Testing for function existence
- Working Example(Lab)

---

#### PART 2: WORKING WITH THE FILE SYSTEM

- Creating and deleting a file
- Reading and writing text files
- Working with directories in PHP
- Checking for existence of file
- Determining file size
- Opening a file for writing, reading, or appending
- Writing Data to the file
- Reading characters
- Working Example

---

#### PART 3: COMPLEX FORM PROCESSING

- Super global variables
- The server array
- A script to acquire user input
- Importing user input
- Accessing user input
- Combine HTML and PHP code
- Using hidden fields
- Redirecting the user
- File upload and scripts
- PHP mail functions
- Form Security method and process.
- Working Example(Lab)

---

#### PART 4: WORKING WITH REGULAR EXPRESSIONS



- The basic regular expressions
- Matching patterns
- Finding matches
- Replace patterns
- Working Example(Lab)

---

#### PART 5: CLASSES AND OBJECTS

- Objects oriented programming
- Define a class
- An Object
- Creating an object
- Object properties
- Object methods
- Object constructors and destructors
- Class constants
- Class inheritance
- Abstract classes and methods
- Object serialization
- Checking for class and method existence
- Exceptions
- Iterators
- Summary
- Working Example(Lab)

---

#### PART 6: COOKIES

- The anatomy of a cookie
- Setting a cookie with PHP
- Deleting a cookie
- Creating session cookie
- Working with the query string
- Creating query string
- Working Examples(Lab)

---

#### PART 7: SESSION

- What is session
- Starting a session
- Working with session variables
- Destroying session



- Passing session Ids
- Encoding and decoding session variables
- Working Example(Lab)

#### PART 8: SIMPLE JQUERY AJAX MODULE

- Posting the form using Ajax i.e. without refreshing page.
- Changing content using Ajax.
- Form Validation
- Captcha Validation in forms(To prevent junk message from form)
- Working Examples(Lab)

#### DISCLAIMER

Please note that Deerwalk Institute of Technology reserves the right to change the course syllabus of DWIT Training - PHP / MySQL BASIC course at any time without prior notification.

### PHP / MYSQL : LEVEL III (LARAVEL)

#### OBJECTIVE

- Provide the concept of MVC design pattern.
- Learn how laravel framework run.
- OOP concept and its uses.
- Built application using framework.

#### TARGET GROUP

- Fresh graduates willing to learn how to program in PHP/MySQL
- Working professionals who want gain an understanding of applications built using this particular technology

#### TARGET METHOD

- Self-study materials
- Assignments
- For each module, a minimum of 60% will be covered in the lab and remaining portion will be shared in the class.

#### COURSE DURATION

- 3 weeks (30 hours)

#### COURSE BREAKDOWN



---

## INTRODUCTION TO LARAVEL

- Concept of Composer
- Installing Composer
- Installing Laravel using composer
- Configuring Laravel
- Project Structure
- Setting up Development and Debugging Tools

---

## ROUTING

- Basic Routing
- Named Routing
- Grouped Routing
- Routing Parameters
- Handling Invalid Routes
- Route filtering with Middleware

---

## CONTROLLERS

- Introduction
- Basic Controllers
- Restful Resource Controllers
- Controller Routing
- Controller Middleware

---

## REQUEST

- Handling Request Info.
- Request Inputs
- Form Inputs
- Old Inputs
- Cookies
- Files

---

## RESPONSE

- Attach Headers and Cookie to response





- Response with View
- Response with JSON
- Response with File

---

## DATABASE

- Introduction
- Migration
- Schema Building
- Migration Structure
- Writing Migration
- Running Migration
- Seeding
- Database Configuration
- Running Raw SQL queries
- Model
- Eloquent ORM
- Defining Model
- Retrieving Model
- Insert & Update Model
- Deleting Model
- Eloquent Relationship
- One to One
- One to Many
- Many to Many

---

## VIEW

- Passing data to view
- Sharing data to all views
- Blade Template Engine
- Introduction
- Template Inheritance
- Displaying Data
- Implement Control Structures

---

## LARAVEL FORMS & HTML COMPONENT

- Installation
- Generating form
- CSRF Protection



- Form Elements
- Labels
- Text, Text Area, Password & Hidden Fields
- Checkboxes and Radio Buttons
- File Input
- Number Input
- Data Input
- Drop-Down List
- Buttons
- Custom Form Macros

### DISCLAIMER

Please note that Deerwalk Institute of Technology reserves the right to change the course syllabus of DWIT Training - PHP / MySQL BASIC course at any time without prior notification.

### FEE STRUCTURE

Total Fees: **NRS 15,000.**

**NRS 15,000** must be paid at the time of admission.

### SCHOLARSHIP/GRANT

- Full/partial scholarships will be granted to deserving candidates based on the scores obtained in enrollment test.

### HOW TO APPLY

- Please email your resume with application letter to [trainee@dwit.edu.np](mailto:trainee@dwit.edu.np)
- Selected candidates must pass the placement test and an interview