



CERTIFICATE IN FULL-STACK DEVELOPMENT- PHP

DURATION: 240 Hours

TOTAL CREDITS: 8

COURSE SYLLABUS

Objective

Certificate in Full-Stack Development- PHP enables a person to learn the core concepts of both the front-end and back-end programming, to get familiar with the latest web development technologies like Laravel Framework, learn all about SQL databases, and learn the complete web development process.

Exit Profile

- Expertise to develop web applications using classic PHP
- Expertise to develop complete web applications/web sites using Laravel
- Expertise in Database Operations and MySQL

Career Path

- JAVA Full-Stack Developer
- Frontend developer
- UI Designer

Course Outline

Course Name:	CERTIFICATE IN FULL-STACK DEVELOPMENT- PHP	Duration:	240 H
Module	Topic	Dur.	Total Dur.
MODULE -1	Introduction to UI/UX designing	6 H	120 H
	HTML	18 H	
	CSS	18 H	
	JavaScript	30 H	
	JQuery	30 H	
	Bootstrap	18 H	
MODULE -2	Server-Side Scripting using PHP	36 H	120 H
	RDBMS-MYSQL	36 H	
	Web Application development using PHP & Laravel	36 H	
	Introduction to Cloud Computing, Git & GitHub	12 H	

Course in Detail

MODULE-1

INTRODUCTION TO UI/UX DESIGNING

- HTML
- CSS
- JavaScript
- JQuery
- Bootstrap
- Core Java Programming
- RDBMS -My SQL Server
- JDBC
- Servlets
- JSP
- Spring Frameworks
- Hibernate
- Introduction to Cloud Computing, GIT & GITHUB

HTML

- Introduction
- Building Blocks of Web Frontend
- Introduction To HTML
- Basic HTML TAGS
- Advanced HTML Tags & concepts.

CSS

- Introduction to CSS
- CSS Basics
- CSS Advanced

JAVASCRIPT

- Introduction to DHTML
- Javascript Basics
- Javascript Advanced
- Document Object Model
- Manipulating DOM using JS
- DOM Events

JQUERY

- JQuery Basics
 - What is JQuery?
 - Adding JQuery to a web page
 - JQuery Syntax
 - JQuery Selector
 - JQuery Events
- JQuery Advanced
 - HTML Manipulations
 - Effects
 - Traversing
 - Plugins

BOOTSTRAP

- What is Bootstrap?
- Adding bootstrap to your projects.
- Different predefined Element styles

- The Grid System
- Forms
- Templates

MODULE – 2

SERVER-SIDE SCRIPTING USING PHP

- PHP Introduction
- Variables, Constants, Datatypes
- Operators and Control Structures
- Looping Statements
- Arrays and For-each Loop
- PHP Functions
- HTML Forms with PHP
- File Handling
- Cookies in PHP
- Sessions in PHP

RDBMS –MySQL

- Introduction to RDBMS
- Introduction to MySQL
- Installation of MySQL using XAMPP Open-Source Package
- SQL Command Types –DDL, DML & TCL Commands
- Simple Queries using Where Clause
- Built-in Functions in SQL
- Aggregate Functions
- Group By, Order By, Group By ... Having Clauses
- Views
- Indexes

- Constraints
- SQL Joins
- INTERSECT, UNION & MINUS Clauses
- TCL Commands (Commit, Rollback)
- PL/SQL

WEB APPLICATION DEVELOPMENT USING PHP & LARAVEL

- Architecture
- Setup & Installation
- Basic Routing
- Responses
- Filter
- Controllers
- Blade Templates
- Advance Routing
- URL Generation
- Request Data
- Forms
- Validation
- Databases
- Schema Builder
- Migrations
- Eloquent ORM
- Eloquent Queries
- Eloquent Relationship
- Authentication

INTRODUCTION TO CLOUD COMPUTING, GIT & GITHUB

- What is cloud computing?
- Working of cloud Computing
- Advantages of Cloud Computing
- What is Git and Gitlab?
- Installing Git
- Git File Management
- Branching
- Pull Requests
- Common Workflows

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