

# Certificate Program Full Stack Development

**Subject Name: HTML/CSS** 

**Total Units: 14** 

**Unit** – **1** 

➤ Unit 1: Web Programming Introduction: Architecture of a website, Different technologies in making the website;

➤ Unit 2: Introduction to HTML: History of HTML, Basic structure of an HTML document

➤ Unit 3: HTML Lists

## Unit - 2

Unit 4: HTML TableUnit 5: HTML Forms

## Unit - 3

➤ Unit 6: Introduction to CSS

➤ Unit 7: CSS Selectors

➤ Unit 8: CSS - Pseudo Classes

➤ Unit 9: CSS Texts

#### Unit - 4

➤ Unit 10: CSS Lists

➤ Unit 11: CSS Tables

➤ Unit 12: CSS Box Models

➤ Unit 13: CSS Positioning

➤ Unit 14: CSS Floats

Subject Name: JavaScript

**Total Units: 14** 

## UNIT 1

Unit 1: Introduction to JavaScriptUnit 2: Intermediate JavaScript

➤ Unit 3: Variables, Data Types and Keywords

UNIT 2



- Unit 4: Operators, Operator Precedence, Arithmetic Operator, Comparison Operator, Logical Operator, Bitwise Operator
- ➤ Unit 5: Assignment Operator, Ternary Operator, Unary Operator
- Unit 6: Document Object Model(DOM)
- ➤ Unit 7: inner HTML Property and Control Statement

#### UNIT 3

- ➤ Unit 8: Introduction to Objects
- ➤ Unit 9: Array
- ➤ Unit 10: JavaScript Event
- ➤ Unit11: Validations

#### UNIT 4

- ➤ Unit 12: JavaScript OOPS, Class, objects and prototypes
- ➤ Unit 13: JavaScript OOPS, Inheritance, Polymorphism, Encapsulation, Static and Constructor Methods
- ➤ Unit 14: Exception handling and JavaScript Cookies

# **Subject Name: PHP**

## **Total Units: 14**

#### UNIT 1

- ➤ Unit 1: Introduction to PHP, Advantages, Differentiate Client side scripting vs server side scripting
- ➤ Unit 2: Installation of PHP, Variable types and variable Scopes
- ➤ Unit 3: PHP \$ and \$\$ Variables, PHP Constants
- ➤ Unit 4: PHP Data Types, Echo vs Print

#### UNIT 2

- ➤ Unit 5: PHP Operators
- ➤ Unit 6: Conditional Statements
- ➤ Unit 7: Control Statements

# UNIT 3

- ➤ Unit 8: Arrays
- ➤ Unit 9: Functions, Function Arguments
- ➤ Unit10: Strings

#### UNIT 4

- ➤ Unit 11: Forms Processing, Designing a form
- ➤ Unit 12: GET and POST Methods, Form Handling
- ➤ Unit 13: Form Validation, Client Side Validation, Server Side Validation



➤ Unit 14: Session Management

**Subject Name: Database System** 

Total Units: 5

UNIT 1

Unit 1: Introduction to database, Applications, History of database system

Unit 2: File Processing system, Database management system

Unit 3: Database design and Data models

# UNIT 2

➤ Unit 4: Introduction to Database language, DDL DML

➤ Unit 5: DCL, TCL

# UNIT 3

➤ Unit 6: Data Types

➤ Unit 7: MySQL Tables

➤ Unit 8: Constraints

# UNIT 4

➤ Unit 11: PHP, MyAdmin, Connecting MySQL database

➤ Unit 12: Performing basic database operations

➤ Unit 13: Setting query parameter, Executing query, Joins

➤ Unit 14: Aggregate functions