

Scripting Course Outline

3. Scripting languages (Python, JavaScript, PowerShell, Bash, etc.)

- 3.1. Introduction to scripting languages
- 3.2. Python
- 3.3. JavaScript
- 3.4. PowerShell
- 3.5. Bash



4. Automation and workflow

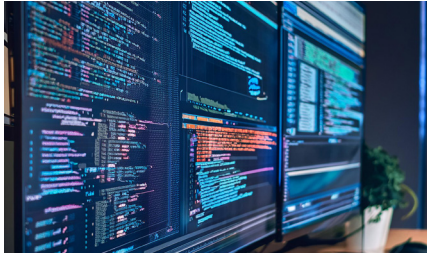
- 4.1. Introduction to automation
- 4.2. Workflow automation tools (Zapier, IFTTT, etc.)
- 4.3. Scripting for automation



5. Security and compliance

- 5.1. Introduction to security and compliance
- 5.2. Scripting for security (SIEM, IDS, etc.)
- 5.3. Scripting for compliance (GDPR, HIPAA, etc.)





Scripting Course Outline

Introduction on Scripting

- What is Scripting?
- Course Overview
- Fundamentals of Scripting Language
- Server-side operations

Duration: 3 Days

Related Courses:

JavaScript, HTML & CSS, Design Thinking, Database , Web development frameworks, Web Application, Front-End Frameworks and Backend Development, User Experience and User Interface

Course Overview and Objectives

Provides with a comprehensive understanding of Php (Scripting Language) one of the most popular server-side scripting language used for web development .Creating dynamic, interactive, and data-driven websites and applications.

This course will teach you a wide range of skills and concepts necessary for developing dynamic , server-side web application. Learning about local, global and static variables.

Softwares

Python, Ruby, Node.js, Java, Rust, C#, Perl, Swift, Kotlin,

Pre-requisites:

A basic understanding of HTML, CSS, and JavaScript.

Scripting Language functional elements

- Variables and Data types
- Object-Orientated Programming
- Control Structures
- Functions
- Arrays
- Sessions and Cookies
- Database Access
- Command-Line Scripting

Basics of Php (Scripting language)

- Php Syntax and tags
- Variable and Data Types
- Operators (Comparison, Logical, Assignments)
- Constants
- Conditional Statement
- Loops
- Arrays (Indexed, Associative, Multidimensional)

Building A Simple Project

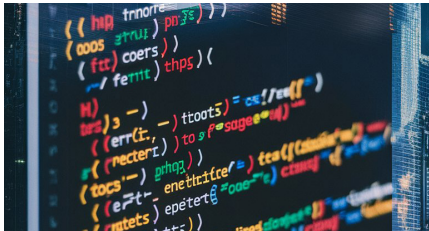
- Project planning and setup
- Defining project requirements
- Structuring your application
- Developing and testing
- Building core features
- Testing and debugging

Functions

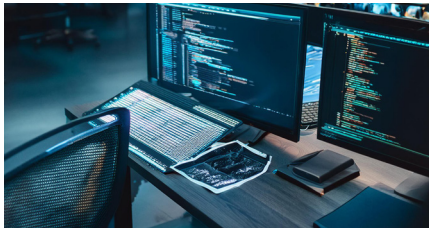
- Defining and Calling Functions
- Function Parameters and Return Values
- Variable Space and Global Variables
- Built-in Php Functions
- Including and Requiring Files

Working with Forms

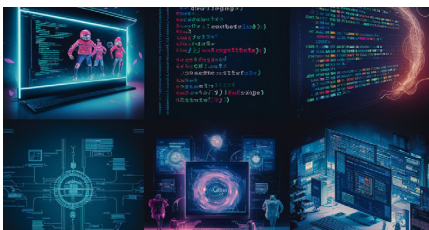
- Handling form data
- Using '\$_GET' and ' \$_POST' methods
- Validating and sanitizing user input
- Storing form data in sessions or cookies



Navigation elements are the tools allowing users to choose where they want to go within the website.



Typography Create a visually appealing user-friendly web design that enhance readability and accessibility.



Design process is key
Helps create a website that is not only visually appealing but also functional, user-friendly, and aligned with business goals.

Databases

- Introduction to Database and SQL
- Connecting to a MYSQL Database with Php
- Performing CRUD Operations
- Error Handling and Debugging
- Statements and Parameterized Queries

Forms Handling and user input

- Forms in HTML
- Handling Form Data with Php
- Validating user input
- Sanitizing and Escaping user input
- File uploads

Objected-Oriented Programming

- Introduction to OOP Concepts
- Properties and Methods
- Inheritance and Polymorphism
- Encapsulation and Abstraction
- Working with Constructors and Destructors
- Namespace and Autoloading

File Handling

- Reading and writing files
- Opening, reading , writing and closing files
- Handling file uploads through forms
- Validating and processing uploaded files

We offer online support to clients on content covered on our courses.