**Python Training Schedule**



# Python Training Schedule

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| **Module** | **Topic** | **Start-Date** | **End-Date** | **No. of Days** |
| 1 | Getting Started with Python  * Overview of Python programming language and its history * Installing and setting up the development environment * Creating Virtual Environments * Running Python Programs * Basic syntax and programming concepts * Data types, variables, and operators * Practice & Exercises | 01-05-23 | 03-05-23 | 3 Days |
| 2 | Control Flow and Functions  * Control flow statements (if/else, loops) * Functions and modules * Error handling and exceptions * Debugging techniques * Practice & Exercises | 04-05-23 | 05-05-23 | 2 Days |
| 3 | Data Structures and Algorithms  * Lists, tuples, sets, and dictionaries * String manipulation * Searching and sorting algorithms * Recursion * Practice & Exercises | 08-05-23 | 09-05-23 | 2 Days |
| 4 | Object-Oriented Programming  * Classes and objects * Inheritance and polymorphism * Abstraction and encapsulation * Exception handling * Practice & Exercises | 10-05-23 | 11-05-23 | 2 Days |
| 5 | File Handling and Working with Data  * Opening, closing, and manipulating files * Reading and writing files * Working with CSV and JSON files * Introduction to data analysis and manipulation using pandas library * Practice & Exercises | 12-05-23 | 15-05-23 | 2 Days |
| 6 | Web Development with Python  * HTML, CSS, and JavaScript basics * Introduction to Flask or Django frameworks * Building web applications using Flask or Django * Practice & Exercises | 16-05-23 | 22-05-23 | 5 Days |
| 7 | Databases and Data Science with Python  * SQL basics * Introduction to SQLite or MySQL * Using Python to interact with databases * Data analysis and visualization using NumPy, Pandas, Matplotlib, and Seaborn * Practice & Exercises | 23-05-23 | 25-05-23 | 3 Days |
| 8 | Advanced Topics in Python  * Regular expressions * Working with APIs using Python * Testing and debugging * Practice & Exercises | 26-05-23 | 30-05-23 | 3 Days |

# Assessments:

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| **S.No** | **Test #** | **Syllabus** | **Date & Time** |
| 1 | Test- 1 | Module-1 & Module -2 | 08-05-23, 4 PM – 5 PM |
| 2 | Test-2 | Module-3 & Module-4 | 15-05-23, 4 PM – 5 PM |
| 3 | Test-3 | Module-5 & Module-6 | 25-05-23, 4 PM – 5 PM |
| 4 | Test-4 | Module-7 & Module-8 | 29-05-23, 4 PM – 5 PM |