

E2MATRIX

Training and Research Institute

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PYTHON COURSE STRUCTURE

Python is a widely used general-purpose, high-level programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than would be possible in languages such as C++ or Java. The language provides constructs intended to enable clear programs on both a small and large scale. Python supports multiple programming paradigms, including object-oriented, imperative and

functional programming or procedural styles. It features a dynamic type system and automatic memory management and has a large and comprehensive standard library. Python interpreters are available for installation on many operating systems, allowing Python code execution on a wide variety of systems.



DAY 1

- 1. Introduction to python (Using PowerPoint Slides)
- 2. Writing Simple Programs
- 3. Discuss How Python Program runs
- 4. Types and Operations in python
- 5. Numbers

- 6. Strings
- 7. Lists and Tuples
- 8. Dictionaries
- 9. Files
- 10.Statements and Syntax

DAY 2

- 1. Assignments, Expressions and Print Statements
- 2. Conditional constructs
- 3. Iterative Constructs
- 4. Introduction to Functions and Lambda Forms
- 5. Functions and Arguments and Scope
- 6. List Comprehensions
- 7. Generators

DAY 3

- 1. Understanding Modules in Python
- 2. Module Packages
- 3. Package imports
- 4. Mixed usage modes
- 5. Introduction to OO Programming in python
- 6. Class coding basics
- 7. OOP and Inheritance
- 8. New Styled Classes
- 9. Introduction to Exceptions