

Python

Python is a **computer programming language often used to build websites and software, automate tasks, and analyze data**. Python is a general-purpose language that can be used to create various programs and isn't specialized for any specific problems.

Python Programming Course Syllabus

I. Python: Level 0 (Basics)

- a) Introduction to Python
- b) Python in Real World
- c) Installation & Execution of Python

II. Python: Level 1

- a) Identifiers
- b) Variables
- c) Keywords/Reserved Words
- d) Data Type
- e) Type Casting

III. Python: Level 2

- a) Operators
- b) Conditional Statements (if, elif, else)
- c) Loops(for, while)
- d) Transfer statements (break, continue, pass)
- e) Input & Output Statements

IV. Python: Level 3

- a) String
- b) List
- c) Tuple



ROOKIES WORLD

- d) Set
- e) Dictionary
- f) Byte
- g) ByteArray
- h) FrozenSet
- i) Functions
- j) Decorators & Generators

V. Python: Level 4

- a) Introduction to OOPS
- b) Class
- c) Constructors
- d) Objects
- e) Methods
- f) Variables
- g) Inheritance
- h) Encapsulation
- i) Polymorphism



VI. Python: Level 5

- a) File Handling
- b) Regular Expressions
- c) Exception Handling
- d) Multi-Threading

VII. Python: Level 6 (Projects)

- a) Tic Tac Toe game
- b) Snake game
- c) Alarm Clock App
- d) Webscraping