

Curriculum:

1. Introduction to Python data types and objects

- a) Python Data types.
- b) Declaring variables with assignment operators.
- c) Numbers and Arithmetic Operators.
- d) Introduction to strings.
- e) Indexing and slicing.
- f) String properties and methods.
- g) Print formatting with strings.
- h) *Split method in string.
- i) Boolean, comparison operators.

2. Introduction to Python data structures

- a) Lists.
- b) Dictionaries.
- c) Tuples.
- d) Sets.

3. Python Control flow statements

a) Conditional Statements.

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- b) Boolean expressions for conditional statements FAQs.
- c) Elif and Else statements.
- d) For loops.
- e) While Loops.
- f) For vs While loop FAQs.
- g) Break, continue.
- h) Zip and enumerate.
- i) Lists comprehensions.
- j) Other useful operators.

4. Python Methods and Functions

- a) Methods in Python.
- b) Functions in Python.
- c) Variable scopes.
- d) Coding exercises.
- e) Function practice exercises.
- f) Lambda expressions, maps.
- g) Nested statements.

5. Python Milestone Project 1

6. Object Oriented Programming

- a) Introduction.
- b) Attributes and classes.
- c) Methods.
- d) Inheritance and Polymorphism.
- e) Special methods.

7. Modules and Packages

- a) The standard library.
- b) Importing local scripts.
- c) Pip install and PyPi.
- d) _name_ and _main_.

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e)	Third party libraries.
8 a)	Errors and Exception Handling Error and exception handling.
9	. Python Milestone Project 2
a)	O. Python Decorators and Generators Decorators. Generators.
1	2. Final Python Project
1	3. Advanced Python Modules
1	4. Advanced Python Objects and Data structures
1	5. Introduction to GUI

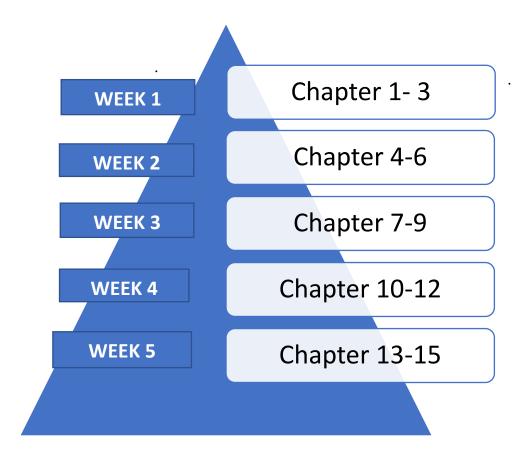
Important Instructions –

- There will be small Quizzes and Practice Questions after every module.
- The recordings and notes for coming week will be uploaded on Github every Sunday or Monday by midnight.
- You will all get a week to work on the assignments and submit the answers to the quiz and practice questions by the time you finish it.

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 If anyone has any questions in the learning material or assignments, then they can drop me a message on slack.



Weekly distribution of topics being covered.

