

## Python Course Content

### Core Python

1. Introduction to python
2. History Of Python
3. Advantages & Disadvantages of Python
4. Introduction to Interpreter
5. Python Installation
6. Python Program Execution Flow
7. Python Syntaxes
8. Introduction to IDE (Eclipse, PyCharm)
9. Python Program Development
10. Identifiers, keywords
11. Basic data types
12. Dynamic Typing
13. Type conversion functions
14. Operators
15. Operator Precedence
16. input/output
17. Reading User Input
18. Displaying Output
19. Formatting Output
20. Variables, expressions
21. Operators

22. Selection control statements (if, if..else)
23. range data type ,indexing and slicing
24. Iterative control statements (while, for..in, while...else, for..in .. else)
25. Transfer control statements ( Break & continue )
26. Python strings
27. List
28. Tuple
29. Set
30. Dictionary
31. Functions
32. Definition and advantages of a function
33. Understanding scope
34. Default arguments
35. Keyword arguments
36. Variable length arguments
37. Lambda expressions (Only Coding)
38. Documentation & Annotations
39. Types of arguments
40. Scope of variables
41. Global variables
42. Local variables
43. Nested functions
44. Lambda functions
45. Exceptions
46. Syntax errors vs Runtime errors

- 47. Handling, Raising exceptions
- 48. Built-in exceptions
- 49. MemoryError
- 50. NameError
- 51. ValueError
- 52. TypeError
- 53. User-defined exceptions
- 54. Clean-up actions

