

WIT-Python Syllabus

1.Introduction to python

- Diff between middle level prog and high level prog.
- Diff between c prog,java prog and python prog.
- what is variable.

2.Short intro to Object Oriented Programming.

- Inheritance
- Polymorphism
- Abstraction
- Encapsulation

3.Intro to format() method on python.

4.Datatypes in python.

- Numeric
 - int,float,complex
- set
- boolean
- dictionary
- sequence
 - list,tuples,string

5.Handling inputs and outputs.

6.Operators in python

- Arithmetic,Relational,Logical,Bitwise

7.Datatypes in detail with examples.

8.Decision making statements(control statements).

9.Loops in python

- 10.Intro to functions.
- 11.creating userdefined functions.
- 12.Scope of variables
- 13.Types of function rguments.
 - Keyboard,positional and default arguments.
- 14.Anonymous function(lambda function)
- 15.filter() and map() methods.
- 16.Nested function.
- 17.closure technique in python.
- 18.Python decorators.
- 20.Object Oriented Programming in detail
- 20.intro to class.
 - class variables
 - instance variables
- 21.Constructors and destructors.
- 22.Inheritance in detail with its types.
- 22.pass keyword.
- 23.Method overriding.
- 24.Data hiding(public,private,protected).
- 25.Implementation of data hiding.
- 26.polymorphism in detail.
- 27.operator overloading.
- 28.Reguler expression in detail.
- 29.Python modules and packages.
- 30.intro to inbuilt modules.
- 31.creating userdefined modules.

32.Intro to packages.

33.File handling.

34.Exception handling

35.finally() block.

36.Debugging in python.

- Debugging techniques

- Debugging tools

- pdb module

37.Multithreading in python

38.Python generators.

39.Database handling with python(structured).

40.Performing Database operations.