Python Curriculum

Basics:

Day 1:

1.1 Variables

1.2 Data types

1.3 Assignment, multiple assignment

1.4 print, type ()

1.5 Python Keywords

1.6 Operators (2)

Day 2:

1.1 Operators (3)

1.2 if

1.3 if-else

1.4 if-elif-else

Day 3:

1.1 Loops Introduction

1.2 For loop

1.3 while loop

1.4 do-while (info)

1.4 Ex. on For, nested For, nested If else, break, continue.

Day 4:

1.1 String Indexing

1.2 String Slicing

1.3 String Methods

1.4 String basic programs

Day 5:

1.1 List Indexing

1.2 List Slicing

1.3 List methods

1.4 List basic programs

1.2 Ex. on For, nested For, nested If else, break, continue.

Day 6:

1.1 Tuple methods

1.2 Tuple basic programs

1.3 Datetime Module Programs

Day 7:

1.1 Dictionary methods

1.2 Dictionary programs

1.3 Set

Day 8:

1.1 Logic building programs on List

Day 9:

1.1 Logic building programs on String.

Day 10:

1.1 Logic building programs on Dictionary & tuple.

Day 11 – Day 13:

1.1 User define functions & examples

1.2 Return statement

Day 14:

1.1 Calculator using functions.

1.2 Topic revision, Assignment submission, Test(30min).

Intermediate:

Day 15:

1.1 Exceptions Introduction.

1.2 Handling Exception & Custom Exception

Day 16:

1.1 Files & Files Operations.

1.2 OOP Introduction

Day 17:

1.1 OOP basic Examples

1.2 OOP Constructor.

Day 18:

1.1 Mini Project 1

1.2 Inheritance & Types

Day 19:

1.1 Inheritance Types

1.2 Polymorphism

Day 20:

1.1 Abstraction & Encapsulation.

1.2 Practice Session.

Day 21- Day 23:

1.1 Advance Data structures (Stack, Queue, Linked List)

Day 24:

1.1 What is a Virtual Environment & Steps

1.2 Assignments/Quiz Test(40min).

Advance:

Day 25:

1.1 Lambda Functions

1.2 Regular expression

1.3 Generators & Decorators.

Day 26:

1.1 Context Manager

1.2 Excel Automation

Day 27:

1.1 Excel automation continue.

1.2 Email Automation

Day 28:

1.1 Working with APIs.

1.2 Working with JSON

Day 29:

1.1 Mini project 2 / Interview Question

Day 30:

1.1 Revision & Doubt Solving Session