Python Curriculum

Basics:

Day 1:

1.1 What is the need of programming.

1.2 Introduction to Python.

1.3 Installation of Python.

1.4 Modules & Pip

1.5 Variables & Operators

Day 2:

1.1 In-built Functions (input, print)

1.2 Assignment Operators

Day 3:

1.1 Operators in Python

1.2 List Methods, Tuple Methods.

Day 4:

1.1 String Methods, Dictionary Methods.

1.2 Control Flow (if, else)

Day 5:

1.1 Loops Introduction

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

Day 6-Day 7:

1.1 Logic building programs on List.

Day 8 – 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

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