

PYTHON FOUNDATION COURSE SYLLABUS

Introduction

1. How Computer works
2. What is meant by programming
3. What is the need of programming
4. What is Python
5. Installation guidance

Phase 1

1. "Hello World" Program.
2. Variables, Literals, Statements, Syntax.
3. Data types and its declarative Syntax.
4. Functions of Data Types.
5. Control Flow
6. Conditional Statements, Types of conditions.
7. Loops and Control Statements.
8. Functions and its types.
9. Recursive programming
10. Build in methods for ease programming.
11. Modules and Package building.
12. Useful Modules.
13. Logic Building Strategies.
14. Project

Phase 2

1. Anonymous function.
2. Iterable Super functions.
3. Decorators

SYLLABUS CONTINUATION

Phase 3

1. Concept of DRY Rule.
2. Classes and Objects
3. Object Oriented Programming.
4. Inheritance
5. Abstraction
6. Encapsulation
7. Polymorphism

Phase 4

1. GUI Python Programming.
2. Regular Expression.
3. Networking Socket module.
4. Database Connectivity.

Phase 5

1. Real Time Project - 1
- 2 Real Time Project - 2
3. Real Time Project - 3

Add-ons

1. Tips to be a successful backend developer
2. What's next
3. Certification guidance