## Python Part 1: Fundamentals!

**Overview:** This course will teach students about data structures, pointers, arrays, and strings.This course will teach students about installing and configuring Python, syntax, importing, statements, types, strings, booleans, files, lists, tuples, comprehensions, functions, and classes.

## Course Modules:

### **Module 01 – Install and Configure**

### **(Duration: 1h 33m)**

1. Workbook (Pdf)
2. Topic A: Installing Python – Part 1
3. Installing Python – Part 2
4. Installing Python – Part 3
5. Topic B: Python Documentation – Part 1
6. Python Documentation – Part 2
7. Python Documentation – Part 3
8. Topic C: Command Line – Part 1
9. Command Line – Part 2
10. Command Line – Part 3
11. Topic D: Variables – Part 1
12. Variables – Part 2
13. Variables – Part 3
14. **Review Quiz (Number of attempts allowed: Unlimited)**

### **Module 02 – Syntax, Import, Other Topics**

### **(Duration: 1h 13m)**

1. Workbook (Pdf)
2. Topic A: Simple Python Syntax – Part 1
3. Simple Python Syntax – Part 2
4. Simple Python Syntax – Part 3
5. Topic B: Keywords – Part 1
6. Keywords – Part 2
7. Keywords – Part 3
8. Topic C: Import Module – Part 1
9. Import Module – Part 2
10. Import Module – Part 3
11. Topic D: Additional Topics – Part 1
12. Additional Topics – Part 2
13. Additional Topics – Part 3
14. Review Quiz**(Number of attempts allowed: Unlimited)**

### **Module 03 – Statements**

### **(Duration: 1h 34m)**

1. Workbook (Pdf)
2. Topic A: If, Elif, Else – Part 1
3. If, Elif, Else – Part 2
4. If, Elif, Else – Part 3
5. Topic B: For – Part 1
6. For – Part 2
7. For – Part 3
8. Topic C: Loops – Part 1
9. Loops – Part 2
10. Loops – Part 3
11. Topic D: Execute- Part 1
12. Execute- Part 2
13. Execute- Part 3
14. Topic E: Iterable- Part 1
15. Iterable- Part 2
16. Iterable- Part 3
17. Topic F: Exceptions- Part 1
18. Exceptions- Part 2
19. Exceptions- Part 3
20. **Review Quiz (Number of attempts allowed: Unlimited)**

### **Module 04 – Types**

### **(Duration: 1h 6m)**

1. Workbook (Pdf)
2. Topic A: Data Types- Part 1
3. Data Types- Part 2
4. Data Types- Part 3
5. Topic B: Number Types- Part 1
6. Number Types- Part 2
7. Number Types- Part 3
8. Topic C: More Number Types- Part 1
9. More Number Types- Part 2
10. More Number Types- Part 3
11. Review Quiz**(Number of attempts allowed: Unlimited)**

### **Module 05 – Strings, Booleans, and Files**

### **(Duration: 45m)**

1. Workbook (Pdf)
2. Topic A: Strings- Part 1
3. Part 2
4. Strings- Part 3
5. Topic B: More Strings- Part 1
6. More Strings- Part 2
7. More Strings- Part 3
8. Topic C: Booleans- Part 1
9. Booleans- Part 2
10. Booleans- Part 3
11. Topic D: Files- Part 1
12. Files- Part 2
13. Files- Part 3
14. **Review Quiz (Number of attempts allowed: Unlimited)**

### **Module 06 – Lists, Tuples, Comprehensions**

### **(Duration: 45m)**

1. Workbook (Pdf)
2. Topic A: Lists- Part 1
3. Lists- Part 2
4. Lists- Part 3
5. Topic B: Dictionaries- Part 1
6. Dictionaries- Part 2
7. Dictionaries- Part 3
8. Topic C: Tuples- Part 1
9. Tuples- Part 2
10. Tuples- Part 3
11. Topic D: Sets- Part 1
12. Sets- Part 2
13. Sets- Part 3
14. Topic E: Comprehensions- Part 1
15. Comprehensions- Part 2
16. Comprehensions- Part 3
17. Review Quiz**(Number of attempts allowed: Unlimited)**

### **Module 07 – Functions**

### **(Duration: 1h 7m)**

1. Workbook (Pdf)
2. Topic A: Definitions- Part 1
3. Definitions- Part 2
4. Definitions- Part 3
5. Topic B: Functions- Part 1
6. Functions- Part 2
7. Functions- Part 3
8. Topic C: Default Arguments- Part 1
9. Default Arguments- Part 2
10. Default Arguments- Part 3
11. Topic D: Doc Strings- Part 1
12. Doc Strings- Part 2
13. Doc Strings- Part 3
14. Topic E: Variadic Functions- Part 1
15. Variadic Functions- Part 2
16. Variadic Functions- Part 3
17. Topic F: Factorial- Part 1
18. Factorial- Part 2
19. Factorial- Part 3
20. Topic G: Function Objects- Part 1
21. Function Objects- Part 2
22. Function Objects- Part 3
23. Topic H: Lambda- Part 1
24. Lambda- Part 2
25. Lambda- Part 3
26. Topic I: Generators- Part 1
27. Generators- Part 2
28. Generators- Part 3
29. Topic J: Closures- Part 1
30. Closures- Part 2
31. Closures- Part 3
32. **Review Quiz (Number of attempts allowed: Unlimited)**

### **Module 08 – Classes**

### **(Duration: 38m)**

1. Workbook (Pdf)
2. Topic A: Classes- Part 1
3. Classes- Part 2
4. Classes- Part 3
5. Topic B: Object Initialization- Part 1
6. Object Initialization- Part 2
7. Object Initialization- Part 3
8. Topic C: Class Static Members- Part 1
9. Class Static Members- Part 2
10. Class Static Members- Part 3
11. Topic D: Classic Inheritance- Part 1
12. Classic Inheritance- Part 2
13. Classic Inheritance- Part 3
14. Topic E: Data Hiding- Part 1
15. Data Hiding- Part 2
16. Data Hiding- Part 3
17. Review Quiz**(Number of attempts allowed: Unlimited)**

**This course includes**

* about 8.41 hours on-demand video
* 8 downloadable Pdf Workbooks
* Unlimited time access (During Membership)
* Access on mobile and Desktop
* Certificate of Completion