***Learning Python course***

What we will be covering in this course:

**Note:** Each lesson will have exercise file that will allow students to test their knowledge with their own pace.

Also, at the end of each lesson there will always be a small test that covers all the concepts of today’s lesson.

1. **Introduction to Python + variables**
2. Introduction
3. What frameworks and programs we will be using during this course
4. Introduction to variables (Lesson 1 – variables)
5. Bitwise operators (optional)
6. **First acquaintance with python operators**
7. Introduction to operators
8. Arithmetic operators
9. Conditional statements (plus logical operators + identical operators)
10. Comparison operators
11. **Working with the String**
12. The most common methods that are used with the String
13. String theory and specification
14. Functions
15. Creating our own functions
16. Overview of return statements
17. **Introduction to Collections**
18. Lists, Sets, Tuples
19. Membership operators explained
20. **List + Sets + Tuples Continued:**
21. The most common methods to work with basic collections
22. Introduction to Dict
23. **OOP**
24. Introduction to classes (constructors, class variables, class methods)
25. Inheritance
26. **OOP continued**
27. Polymorphism
28. Abstraction (abstract classes)
29. **Python frameworks**
30. Pandas
31. **Pandas continued**
32. Continue exploration of most useful functions of this framework
33. **NumPy**
34. **Matplotlib**