# Python Syllabus

Core Python Concepts:                                                     Days(35)

1.  Introduction                          --------------------        1
2.  Modes                                 --------------------        1
    2.1 Interactive Mode
    2.2 Batch Mode
3.  DataTypes(Static/Dynamic)             ----------------------      1
    3.1 Fundamental Types
    3.2 Collection Types
4.  Reading data from Keyboard            ----------------------------   1
5.  Strings                               ----------------------------   1
6.  Collection Types(List, Set, Tuple, Dictionary)    ----------------------------   4
7.  Mutable Vs Immutable                  ----------------------------   1
8.  Operators                             ----------------------------   1
9.  Control Flow Statements(if, elif, else)   ----------------------------   1
10. Looping Statements(for, while)        ----------------------------   1
11. Comprehensions                        ----------------------------   1
12. Functions                             ----------------------------   1
13. Local Vs Global Variables             ----------------------------   0.5
14. Lambda Functions                      ----------------------------   0.5
15. Modules vs Packages                   ----------------------------   1
16. File Handling                         ----------------------------   1
17. Exception Handling                    ----------------------------   1
18. Regular Expressions                   ----------------------------   1

Advanced Python:

1.  OOPS(Class, Object, Constructor)      ----------------------------   1
2.  Variables(Static, Non-Static, Local)   ----------------------------   1
3.  Methods(Staic, Non-Static, Class)     ----------------------------   1
4.  Oops Principles(Encapsulation, Abstraction, Inheritance, Polymorphism) ----   4
5.  Garbage Collection                    ----------------------------   1
6.  Multithreading                        ----------------------------   2
7.  Iterators                             ----------------------------   0.5
8.  Generators                            ----------------------------   0.5
9.  Closures                              ----------------------------   0.5
10. Decorators                            ----------------------------   0.5

## DJango Syllabus

| Concepts | | Days(15) |
|---|---|---|
| Concepts | | Days(15) |
| 1. Introduction | --------------------- | 1 |
| 2. Architecture | --------------------- | 1 |
| 3. Installation/Project Setup/Creation | --------------------- | 1 |
| 4. Request/Http Methods | --------------------- | 1 |
| 5. Views | | |
| 5.1 Function Based Views | --------------------- | 1 |
| 5.2 Class Based Views | --------------------- | 1 |
| 6. Models | --------------------- | 1 |
| 7. Forms | --------------------- | 1 |
| 8. Model Forms | ----------------------- | 1 |
| 9. Sessions | --------------------- | 1 |
| 10. Cookies | ---------------------- | 1 |
| 11. ORM Queries | ----------------------- | 1 |