Python Course Content
(925 MIN - 15.4 hrs ~ 16 hrs Course)

1) Introduction to Python and Basics   - 180 min
    a) Variables and why variables ?   -15 min
    b) Data types - Primitive   -15 min
    c) Comments   -10 min
    d) Operators,   -75 min
        i. Arithmetic Operator   -10 min
        ii. Comparison Operator   -10 min
        iii. Logical Operator   -10 min
        iv. Assignment Operator
        v. Membership Operator   -15 min
        vi. Identity Operator   -15 min
        vii. Bitwise Operator   -15 min
    e) Type Casting   -15 min
    f) Input Functions   -5 min
    g) Ways of Printing   -30 min
    h) ord() and Chr() -> ASCII Concept   -15 min

2) Conditional Statements and it's Applications,   -50 min
    a) Only IF Condition   -5 min
    b) IF - Else Condition   -10 min
    c) ELIF Ladder   -10 min
    d) Nested Conditional Statements   -15 min
    e) Multiple Conditional Statements   -10 min

3) Loops,   - 60 min
    a) While Loop   -30 min
    b) For Loop   -30 min
        i. With Range   -15 min
        ii. Without Range   -15 min

4) Non - Primitive Data types   -150 min
    a) String and String Inbuilt Functions   -30 min
    b) List and List Inbuilt Functions   -45 min
    c) Tuples and Tuples Inbuilt Functions   -15 min
    d) Set and Set Inbuilt Functions   -15 min
    e) Dictionary and Dictionary Inbuilt Functions   -45 min

5) Functions   -150 min
   a) Function Creation and Usage   -30 min
   b) Types of Functions   -45 min
   c) Types of functions arguments   -45 min
   d) Nested Function   -30 min

6) Introduction to Classes and Objects,   -140 min
   a) why Classes ? and Class and Object creation.   -30 min
   b) OOPS Concept   -80 min
      i. Inheritance and Types of Inheritance   -30 min
      ii. Abstract Classes   -10 min
      iii. Polymorphism and why Polymerphism ? -10 min
      iv. Access Specifier ->
         1. Public, Private and Protected   - 15 min
      v. Static, Instance and Class Method   -15 min
   c) Magic Functions   -30 min

7) Exception Handling,   -45 min
   a) Try, Except and Finally   -30 min
   b) Raise and Assert   -15 min

8) Regular Expressions   -30 min
   a) Findall()   -10 min
   b) Split()   -10 min
   c) Sub()   -10 min

9) Modules   -15 min
   a) Predefined Modules   -5 min
   b) Make your python Files as Inbuilt Module   -10 min

10) Special Concepts   -105 min
   a) Lambda Functions   -10 min
   b) Zip()   -10 min
   c) Map()   -10 min
   d) Reduce()   -10 min
   e) Filter()   -10 min
   f) Args(*) and Kwargs(**)   -15 min

g) Decorators and Why Decorators ?   -20 min
h) Iterators   -10 min
i) Generators and Why generators ?   -10 min

11) 1 Mini Project(Python + DBMS/SQL)