

## **Programming Practices (c) Python**

**Introduction:** Basic syntax, Literal Constants, Numbers, Variable and Basic data types, String, Escape Sequences, Operators and Expressions, Evaluation Order, Indentation, Input Output, Functions, Comments.

**Data Structure:** List, Tuples, Dictionary and Sets.

**Control Flow:** Conditional Statements - If, If-else, Nested If-else. Iterative Statement - For, While, Nested Loops. Control statements - Break, Continue, Pass.

**Object oriented programming:** Class and Object, Attributes, Methods, Scopes and Namespaces, Inheritance, Overloading, Overriding, Data hiding.

**Exception:** Exception Handling, Except clause, Try finally clause, User Defined Exceptions.

### **Modules and Packages**

**Standard Libraries:** File I/O, Sys, logging, Regular expression, Date and Time, Network programming, multi-processing and multi-threading.

### **References**

- Timothy A. Budd: Exploring python, McGraw-Hill Education.
- R.Nageshwar Rao ,”Python Programming” ,Wiley India
- Think Python: Allen B. Downey, O'Reilly Media, Inc.