

PROGRAMMING SYSTEM (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.