# **Python Programming**

### (16CS448)

#### Unit - I

 Introduction: History of Python, Features of Python, Python Installation on Windows, LINUX, Running Python Scripts, Variables, Assignment, Keywords, Input-Output, Indentation.

#### Unit - II

- Types, Operators and Expressions: Types Integers, Strings, Booleans; Operators- Arithmetic Operators, Comparison (Relational) Operators, Assignment Operators, Logical Operators, Bitwise Operators, Membership Operators, Identity Operators, Expressions and order of evaluations.
- · Control Flow: if, elif, else, for, while, break, continue, pass

#### Unit - III

 Data Structures Lists - Operations, Slicing, Methods; Tuples, Sets, Dictionaries, Sequences. Comprehensions.

#### Unit - IV

- Functions Defining Functions, Calling Functions, Passing Arguments, Keyword Arguments, Default Arguments, Variablelength arguments, Anonymous Functions, Fruitful Functions (Function Returning Values), Scope of the Variables in a Function - Global and Local Variables.
- Modules, Exception handling

### Unit - V

 Files, Object Oriented Programming OOP in PythonInheritance, Overriding Methods.

# Python Text Books Referred

## **Text Books**

- 1. Python Programming: A Modern Approach, Vamsi Kurama, Pearson
- 2. Learning Python, Mark Lutz, Orielly (files)

## Reference Books

- 1. Think Python, Allen Downey, Green Tea Press
- 2. Core Python Programming, W.Chun, Pearson.
- 3. Introduction to Python, Kenneth A. Lambert, CengageFiles, Object Oriented Programming OOP in Python Inheritance, Overriding Methods.