

Branch: BCA	Semester-IV
Subject Code: 4201	Lecture: 04 Credit: 02
Course Opted	Core Course Practical - 11
Subject Title	PYTHON PROGRAMMING - LAB

Course objectives:

- Install and run the Python interpreter
- Gain knowledge of Python syntax
- Learn variable declarations in Python
- Learn control structures
- Understand modules

Course Outcomes:

- Will be able to interpret the fundamental Python syntax use Python control flow statements.
- Enable the handling of strings and functions.
- Will be able to create and run Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.

Modules	Sr. No.	Topic and Details	No. of Practicals Assigned	Marks Weightage %
UNIT-I	1	Installation of Python Implementation of Numeric int, float, complex data types and type conversions Implementation of string data type, list, data type Conversions, Use of Built in Functions	4	8
UNIT-II	2	Programs to Implement if, else and elif, loops, Loop manipulation using pass, continue, break and else and loops block	5	10
UNIT-III	3	Programs using functions, modules and external packages Programs to implement file operations	8	16
UNIT-IV	4	Creation of GUI Form and Adding Widgets: Designing GUI applications with proper Layout Management features.	8	16
Total			25	50

Text Book:

1. Learning With Python, by Allen Downey, Jeff Elkner and Chris Meyers

References:

1. Dive into Python, Mike
2. Learning Python, 4th Edition by Mark Lutz
3. Programming Python, 4th Edition by Mark Lutz
4. Python Cookbook, Third edition by David Beazley and Brian K. Jones
5. Head First Python: A Brain-Friendly Guide, by Paul Barry