

**JYOTI NIVAS COLLEGE AUTONOMOUS  
SYLLABUS FOR 2018 BATCH AND THEREAFTER**

**Programme: B.C.A**

**Semester: VI**

**PYTHON PROGRAMMING LAB**

**Course Code: 18BCAVIP1**

**No. of Hours: 60**

**COURSE OBJECTIVES:**

- To build programming logic and thereby developing skills in Programming
- To enable problem solving using Python programming language;
- To be able to do testing and debugging of code written in Python Emphasize the concepts and constructs rather than on language features.

**LEARNING OUTCOMES:**

- Enable to build programming logic and thereby developing skills in Programming
- To excel in problem solving using Python programming language;
- To be equipped developers in testing and debugging of code written in Python

**PART –A**

1. Demonstrate different datatypes.
2. Demonstrate usage of branching and looping statements.
3. Demonstrate use of lists, tuples and sets.
4. Demonstrate use of dictionaries.
5. Implement String functions
6. Demonstrate lambda functions
7. Demonstrate use of recursive methods
8. Demonstrate use of class.

**PART-B**

9. Demonstrate inheritance.
10. Demonstrate exceptional handling.
11. Implement any three Regular Expression.
12. Write a python program to show database connectivity using MySQL database Connection.
13. Write a python program to demonstrate linear regression algorithm.
14. Demonstrate use of methods for GUI programming using Tkinter.
15. Build a Python script to send email from our gmail account.
16. Write a Python program to create a chatbot using chatterbot library.