KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

Coimbatore - 641 021, India

FACULTY OF ARTS, SCIENCE AND HUMANITIES (FASH)

Department of CS,CA & IT

I M.Sc CS	I SEMESTER	BATCH : 2019 - 2021

19CSP111   **PYTHON PROGRAMMING – PRACTICAL**   **4H – 2C**

Instruction Hours / week: L: 0 T: 0 P: 4   **Marks:** Int : **40** Ext : **60** Total: **100**

COURSE OBJECTIVES

- To learn how to design and program Python applications.

- To define the structure and components of a Python program.

- To learn how to write loops and decision statements in Python.

- Solve problems requiring the writing of well-documented programs in the Python language, including use of the logical constructs of that language;

- Demonstrate significant experience with the Python program development environment.

COURSE OUTCOME

After the course, students should be able to:

- Adequately use standard programming constructs: repetition, selection, functions, composition, modules, aggregated data (arrays, lists, etc.)

- Master an understanding of loops and decision statements and functions.

- Master an understanding of Python especially the object-oriented concepts.

- Master an understanding of the built-in objects ,List, tuple, set of Python

PROGRAM LIST

1. Write a Python program to compute the GCD of two numbers.

2. Write a Python program to Find the square root of a number (Newton's method)

3. Write a Python program to find the sum of odd and even from a set of numbers?

4. Write a Python program to generate prime numbers between 1 and 50?

5. Write a Python program to reverse the given number and check it is palindrome or not?

6. Write a python program for matrix Multiplication.

7. Write a Python program

   - to Compare two strings
   - Find the length of the string

8. Write a Python program to generate Linear search OR Binary search

9. Write a Python program to generate Selection sort OR Insertion sort

10. Write a Python programs that take command line arguments (word count)

11. Write a Python program to Find the most frequent words in a text read from a file

12. Write a Python program to generate Simulate elliptical orbits in Pygame

13. Write a Python program to generate Simulate bouncing ball in Pygame