## DETAILED SYLLABUS

Contents: Practical

### PART – A

1. i) Write a Python program to compute GCD of two numbers
   ii) Write a Python Program to print prime numbers in the given range.
2. i) Write a Python Program to check the given year is leap year or not.
   ii) Write a Python Program to print Armstrong numbers between given range.
3. i) Write a Python Program to do basic trim and slice operations on String.
   ii) Write a Python Program to accept line of text and find the number of characters, vowels and blank spaces on it
4. i) Write a Python Program using function to display all such numbers which is divisible by 3 but are not multiple of 5 in a given range.
   ii) Write a Python Program using recursion to print ‘n’ terms in Fibonacci series.
5. Write a Python Program to add ‘ing’ at the end of a given string if the string has 3 or more characters. If the given string is already ends with ‘ing’ then add ‘ly’ instead. If the string has less than 3 characters, leave it unchanged.
6. Write a Python program to find minimum and maximum of a list of numbers
7. Write a Python program to display a list in reverse order.
8. Write a Python Program to print the first half values of tuple in one line and last half values in next line.

### PART – B

9. Write a Python Program to take a list of words and return the length of the longest one using string.
10. Write a Python Program to find an element in a given set of elements using Linear Search
11. Write a Python Program to sort a set of elements using Selection sort.
12. Write a Python Program to multiply two matrices.
13. Write a Python program to demonstrate different operations on Tuple.

14. Write a Python Program to demonstrate to use Dictionary and related functions.
15. Write a Python Program to copy file contents from one file to another and display number of words copied.

## BOARD EXAMINATION

**Note:**
Students should write one program from **PART A** and one program from **PART B.**

## DETAILED ALLOCATION OF MARKS

| SCHEME OF VALUATION | | |
|---|---|---|
| 1. | Any one program from PART - A | 20 Marks |
| 2. | Execution | 20 Marks |
| 3. | Result with Print out (Part A) | 5 Marks |
| 4. | Any one program from PART - B | 25 Marks |
| 5. | Execution | 20 Marks |
| 6. | Result with Print out (Part B) | 5 Marks |
| 7. | Viva voce | 5 Marks |
| **TOTAL** | | **100 Marks** |

## LIST OF EQUIPMENTS

**HARDWARE:**

1. Desktop Computers - 30 Nos.
2. Printer – 1 No

**SOFTWARE:**

1. Windows / Linux Operating System
2. Python ( to run as interactive mode and IDLE mode)