

Shantilal Shah Engineering College, Bhavnagar

Information Technology Department

## Python Programming

Date: 26/02/2018

Submission Date: 05/03/2018

### Practical -4: Searching, Sorting and Hash Table

- 1) Write python programs for following searching methods
  - a) Linear search
  - b) Binary search
  
- 2) Write python programs for following sorting methods
  - a) Selection sort
  - b) Bubble sort
  - c) Merge sort
  - d) Insertion sort
  - e) Quick sort
  - f) Heap sort
  
- 3) Write a python program to create hash table using following hash methods with chaining as a collision resolution method:
  - a) Folding Method
  - b) Mid-square Method
  - c) Binning Method