Module 5

CHAPTER 5

Searching and Sorting

Syllabus Topics

Searching : Sequential Search, Binary Search.

Hashing : Hash Functions: Truncation, Mid-square Method, Folding Method, Division Method.

Collision Resolution : Open Addressing : Linear Probing, Quadratic Probing, Double Hashing, Separate Chaining Bucket Hashing. Analysis of all searching techniques.

Sorting : Insertion sort, Selection sort, Merge sort, Quick sort and Radix sort. Analysis of all sorting techniques.

Self-learning Topics : Implementation of different sorting techniques and searching.