

# **Course Contents of Data Structures**

- Introduction to the Data Structure.
  - Array.
  - Structure.
  - Pointer.
  - Link List.
    - ◆ Single Link List
    - ◆ Single Circular Link List
    - ◆ Double Link List
    - ◆ Double Circular Link List
  - Stack.
    - ◆ Static Stack
    - ◆ Dynamic Stack
  - Queue.
  - Sorting
    - ◆ Selection Sort
    - ◆ Insertion Sort
    - ◆ Bubble Sort
  - Quick Sort
  - Merge Sort
  - Heap Sort
  - Tree
  - B- Tree
  - Binary Search Tree
  - AVL Tree
  - Traversal (Pre order, In order, Post order)
  - Graph
  - DFS (Depth First Search)
  - BFS
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