

**Department of Computer Science**

**COMP242 (Second semester - 2021/2022)**

*Project#4 Due Date: 13-15 June 2022 (along with Project#3)*

The final project of the Data Structure course consists of theoretical part. You are asked to write a report about 5 new sorting algorithms.

Your final report should include the following:

* A cover page
* Write 1-1.5 page about each sorting algorithm:
  + Write the algorithm and discuss it.
  + Mention the algorithm properties: time complexity and space complexity and various situations, stability, and whether it is in place or not.
* A summary page comparing the 5 sorting algorithm based on the properties.
* A final page contains the used references reported in a scientific way. (Please refer here for more information)
* The following algorithms shouldn’t be included in your report:
  + Insertion
  + Selection
  + Bubble
  + Shell
  + Merge
  + Heap
  + Radix
  + Quick

Good luck!