Welcome to 204212 Data Structure

Course webpage

http://www.cpe.ku.ac.th/~paruj/204212/204212.html

Course description from the catalog

Abstract Data Types: stack, queues, lists, trees, and graphs; data abstraction; basic algorithms for problem solving: divide-and-conquer, heuristic methods; analysis of algorithm complexity.

Instructor

Paruj Ratanaworabhan, Office: Dept. Computer Engineering Rm 312, e-mail: paruj.r AT ku.ac.th

Time and place

Thursday 1.30pm-4.30pm in Room 202, Dept. of Computer Engineering

Text book


Grading policy

Project 15%
Interview Exam I 10%
Interview Exam II 10%
Mid-term exam 30%
Final exam 35%

Grading assignment

total scores >= 85%, grade = A
80% <= total scores < 85%, grade = B+
75% <= total scores < 80%, grade = B
70% <= total scores < 75%, grade = C+
60% <= total scores < 70%, grade = C
55% <= total scores < 60%, grade = D+
50% <= total scores < 55%, grade = D
total scores < 50%, grade = F
**Academic integrity**

- You are allowed to collaborate on an assignment to the extent of formulating ideas as a group. However, you are expected to write up (and understand) the assignment on your own. Parties engaged in violation of academic integrity will all receive zero grades for the assignment.
- Students who violate the code of academic integrity during exams will be punished severely. Please read through the following link from KU’s student affair division:
  http://www.sa.ku.ac.th/rule-corrupt42.html

**Late policy**

No late assignments will be accepted. Exception to this rule will be granted only in the cases of medical and family emergencies.

**Topics to cover (subject to change)**

Week1: The running time of the programs
Week2: Iteration and recursion
Week3, 4: The tree data model
Week 5: The list data model
Week 6: The set data model
Week 7: The relational data model
Week 8, 9, 10: The graph data model
Week 11: Finite state machines and context-free grammars
Week 12, 13, and 14: Advanced data structures and new direction in computing