

BLM2512 , Data Structures and Algorithms, Group 3

Assist. Prof. M. Amaç GÜVENSAN

Lecture Hours: Monday, 10:00 - 12:50

Lab Hours: Wednesday, 12:00 - 14:00

Classroom: D-B11

Textbook:

Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein,
"Introduction to Algorithms (3rd Edition)", The MIT Press, 2009

Supplementary Textbooks:

Anany Levitin, "Introduction to Design & Analysis of Algorithms (3rd Edition)", Pearson, 2011

Steven Skiena, "The Algorithm Design Manual", 2010

Robert Sedgewick, Philippe Flajolet, "An Introduction to the Analysis of Algorithms (2nd Edition)", 2013

Tentative Schedule:

1. Fundamentals of Algorithmic Problem Solving and Data Structures(03.02.2020)
2. Order of Growth and Search Algorithms (10.02.2020)
3. Lists and Linked Lists (17.02.2020)
4. Queues and Stacks (24.02.2020)
5. Trees, Binary Trees, and Binary Search Trees (02.03.2020)
6. Heap Trees and Heap Sort (09.03.2020)
7. String Search Algorithms (16.03.2020)
8. Midterm - I (23.03.2020)
9. Divide and Conquer Algorithms - I (30.03.2020)
10. Sorting Algorithms (06.04.2020)
11. Divide and Conquer Algorithms - II (13.04.2020)
12. Midterm - II (20.04.2020)
13. Graphs and Graph Traversal (DFS and BFS) (27.04.2020)
14. Minimum Spanning Tree and Shortest Path Problem (04.05.2020)

GRADING (could be revised)				
	Midterms	Homework	Semester Project	Final
Number	2	3-4	1	1
Impact	40%	%20		40%