

BLM3021 , Algorithm Analysis , Group 2

Assist. Prof. M. Amaç GÜVENSAN

Textbook:

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

Supplementary Textbooks:

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 the Analysis of Algorithms Efficiency (18.09.2019)
2. Asymptotic Analysis (25.09.2019)
3. Analysis of Non-Recursive and Recursive Algorithms(02.10.2019)
4. Analysis of Divide and Conquer Algorithms (09.10.2019)
5. Hashing Algorithms - I (16.10.2019)
6. Hashing Algorithms - II (23.10.2019)
7. Dynamic Programming - I (30.10.2019)
8. Dynamic Programming - II (06.11.2019)
9. Midterm - I (13.11.2019)
10. Graph Algorithms (20.11.2019)
11. Backtracking (27.11.2019)
12. Midterm - II (04.12.2019)
13. Priority Queue(11.12.2019)
14. NP, NP-Complete, NP-hard Problems (18.12.2019)

GRADING (could be revised)

	Midterms	Homework	Semester Project	Final
Number	2	2-3	1	1
Impact	30%	15%	15%	40%