

**Middle East Technical University
Department of Industrial Engineering**

**IE454 Network Flows & Project Management
Spring 2021-2022**

Instructor

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Assistants

to be announced

Course Schedule

to be announced

Prerequisite

IE251 Linear Programming

Course Web Page

<https://odtuclass.metu.edu.tr/>

Course Objectives (from METU Catalog)

- ✓ Acquire the skills to identify and formulate a wide variety of industrial engineering applications as network flow problems.
- ✓ Be equipped with various techniques to solve network optimization problems.
- ✓ Have an understanding of modern project management
- ✓ Be equipped with the tools that will enable them to plan, schedule, monitor and control projects

Course Outline

Network Flows An Overview Minimum Spanning Trees Shortest Paths Maximum Flows Minimum Cost Network Flows
Project Management An Overview Project Planning Project Scheduling Resource Planning Project Monitoring & Control

Main References

- Ahuja, R.K., Magnanti, T.L., and Orlin J.B., *Network Flows: Theory, Algorithms and Applications*, Prentice Hall, 1993.
- Meredith, J.R., and Mantel, S.J., *Project Management: A Managerial Approach*, Wiley, 2003.

Assessment (Tentative)

<u>Item</u>	<u>% of overall score</u>
Two Exams	60-70
Quizzes	20-30
Assignments & Project	10-20

Students with Disabilities

Students who experience difficulties due to their disabilities and wish to obtain academic adjustments and/or auxiliary aids must contact METU Disability Support Office and/or course instructor and the advisor of students with disabilities at academic departments as soon as possible. For detailed information, please visit the website of Disability Support Office (<https://engelsiz.metu.edu.tr/en/>)

Academic Integrity

The METU Honor Code is designed to ensure that the principles of academic honesty and integrity are upheld. We all are expected to adhere to the below stated METU Honor Code (<http://fbe.metu.edu.tr/metu-honour-code>)

"The members of the METU community are reliable, responsible and honorable people who embrace only the success and recognition they deserve, and act with integrity in their use, evaluation and presentation of facts, data and documents."