

CEN 213

Data Structures

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Çukurova University

CEN 213

Instructor: Prof. Dr. Selma Ayşe ÖZEL

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Lecture Hours:

- Day time group: Thursday 13:15 – 16:00
- Evening group: Thursday 17:15 – 20:00

Lab Hours:

- Day time group: Friday 08:15 – 10:00
- Evening group: Friday 17:15 – 19:00

Lab assistant: A. Abbas ELMAS

Course Description

Course Objectives:

- To learn basic algorithm analysis methods, and be able to compare the performance of algorithms,
- To introduce abstract concepts for data organization and manipulation,
- To learn how to use these concepts in problem solving.

Text Book and References

1. Mark Allen Weiss, Data Structures and Algorithm Analysis in C++ (3rd ed.), Addison Wesley, 2006.
2. Rifat Çölkesen, Veri Yapıları ve Algoritmalar, Papatya Yayıncılık, 2003.
3. Any book or material in C programming.

Grading

- For the course
 - Midterm 40 %
 - Final 60 %
- For labs
 - Quizes/Assignments 40%
 - Final 60%

Course Outline

- Introduction to algorithm analysis
- Sorting
- Searching
- Linked Lists
- Stacks
- Queues
- Trees
- Graphs