

# **CEN 213**

# **Data Structures**

**Selma Ayşe ÖZEL**

Department of Computer Engineering  
Çukurova University

# CEN 213

**Instructor:** Prof. Dr. Selma Ayşe ÖZEL

**Email:** [saozel@cu.edu.tr](mailto:saozel@cu.edu.tr)

## **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
  - Quizzes/Assignments 40%
  - Final 60%

# Course Outline

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