

CME2202
Data Organization & Management

Lecture #1: Welcome to Class

Asst.Prof.Dr. Özlem AKTAŞ
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Teaching Team

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Objectives

The main objectives of this course are to discuss and teach

- Data, information and Knowledge triple,
- Data and Information representation,
- Organization and processing of files (file processing techniques),
- Physical characteristics of storage media,
- Indexing structures for fast access to data,
- Introduction to DBMS and SQL.

Prerequisites

1. Students who wants to take this course must have taken and pass the course CME2201 Data structures and Algorithms. Some of the techniques will be discussed based on the fundamental data structure.
2. Assignments requires coding in C and Python programming language. A short tutorial will be given in lab sessions for both programming language.

Weekly Schedule

- Lecture teoric session
 - Monday
1. and 2. Groups: 13:00 – 15:00
- Lab practice session
 - Wednesday
1. Group: 09:00 – 10:30
2. Group: 10:30 – 12:00



Assignments

- During the course term, 2 assignments will be given.
- All the assignments must be meticulously documented and must be returned in time.
- No late assignments will be accepted!
- However, assignments must be completed and submitted to take final exam.

Academic dishonesty

- You can discuss the implementations and details of the assignments with your friends but always remember that assignments must be your **individual** work, otherwise stated.
- Cheating is **strictly prohibited !!!**
- If any cheating occurs, both of the works/assignments **will be graded with zero**. If it repeats department administration will be informed.

Grading Policy

Midterm	20%
Assignments	30%
Final Exam	50%



Weekly Plan

Topic	
1	Welcome to DOM
2	Data-Information-Knowledge
3	Data Representation
4	XML Technologies
5	Storage devices & Basic File Ops
6	Binary Search, Simple Indexing
7	B+tree
8	Multidimensional Indexing
9	Hashing
10	External Sorting
11	Introduction to DBMS
12	Data Normalizations & SQL
13	Database Design

How to succeed in this course

- Attend and **participate** classes. Ask question whenever you find something unclear.
- **Don't miss** the lab session.
- Do the **assignments** in time. Don't wait till the last night to start before submission!!
- Ask **help** whenever you don't understand something if you studied enough.