**Term Project**

In this term project, design a small database system, create and fill in this database and implement programs of user interface and essential applications to access the database. You will analyze, design and implement a DBMS for a real context you selected. You can choose any relational database (MS SQL, MySQL, Oracle, etc) to realize your database and any environment and programming (Visual studio, PHP, Java, .. ) to implement your essential application parts. There are six phases in this concept of the project specification.

# Beginning - Determine your group members Due Date: 29.09.2017

Send information of group members ( two student) to [....@ceng.deu.edu.tr/](mailto:mansur.tocoglu@ceng.deu.edu.tr/) ....@cs.deu.edu.tr. If you are alone, you should determine your situation.

# Phase I - Determine your project title Due Date: 06.10.2017

Send details to [.....@ceng.deu.edu.tr/](mailto:mansur.tocoglu@ceng.deu.edu.tr/) [.....@cs.deu.edu.tr](mailto:ali.cuvitoglu@cs.deu.edu.tr) with short brief (couple of sentences) mentioned your project topic briefly.

Sending date is important. If there is an intensity at any project topics, these groups will change the project title with a new subject based on the sending date.

CME3201 Term Project

**201**

**7**

**-**

**2018**

**Fall Semester**

# Phase II - Requirement Analysis and Specification Due Date: 20.10.2017

Explain your project topic in details. List the business rules based on the requirements of the system that you have chosen.

# Phase III – ER Diagram Due Date: 27.10.2017

Draw an ER to accurately to represent set of business rules requirements. This will be your conceptual design. Specify any assumptions clearly that you are making. You can use any tools to draw the ER diagram.

# Phase IV - Database Design Due Date:10.11.2017

Convert your conceptual schema (phase III) into a logical model that can be implemented in a relational DBMS. Convert the ER diagram to a database design. Document your design in Database Schema format. Use appropriate naming conventions for all of your tables and attributes.

# Phase V - Application Interface Implementation & Updated DB Due Date: 24.11.2017

Write SQL statements to create database, tables (primary key and foreign keys must be defined for appropriate situation) and all other structures related to database. Design and implement application interfaces to realize required database operations on the web site for selected one table. Implement your project depends on the multi tier architecture.

# Phase VI – Submission & Presentation Due Date: 19.12.2017

Design and implement interfaces to realize all database operations. Implementation of your project must be constructed by using multi-tier architecture as discussed in labs. Test all interfaces to realize all database operations. Database operations should be realized on stored procedures. At least one trigger and view (for complex queries) must be functional in the project. Use session and create admin pages(optional) which controls the all information on the database. Submit the final term project with all essential files, database script with all data (should include insert commands) and project report.

CME3001 Term Project

**201**

**7**

**-**

**2018**

**Fall Semester**

**Report Content:**

1. Detail problem description
2. Business rules (last version)
3. ER diagram (last version)
4. The database schema with primary key and foreign keys for all relations (last version)
5. All SQL statements (basic operations on database, trigger, view)
6. Screen shots of your interfaces with brief declaration for main operations
7. Additional properties of your project
8. Challenges

**Note:** Your project will be controlled at office on Thursday (21/12/2017). For appointment, please sign for a time slot on the schedule sheet hanged on the office doors. Those who implemented their projects by different technologies from webform, please take appointment from asistant Mansur.