
DATABASE DESIGN & ITS APPLICATIONS IN ARCHITECTURE
CRN 12963 – MBL 515E
SYLLABUS

Credit/Hours	: 3 (3,0)
Prerequisite	: None
C/E	: Compulsory
Instructor	: Alaattin KANOĞLU, PhD, Professor

1. THE AIM OF THE COURSE

The course aims:

- to open a new window for the students to consider the concept of *production process* along with the concept of *product*.
- to analyze building production process considering the participants, their roles and relationships by placing an emphasize on architectural design stage.
- to provide basic skills of understanding, analyzing, designing, developing and implementing an information system required by architectural offices.

2. CONTENT OF THE COURSE

The outline of the course is given below:

- Information systems,
- Modeling languages for information systems
- Data processing systems and their function in information systems,
- Basic database concepts, Theoretical bases of databases
- Relational, hierarchical and net type database architectures,
- Object-oriented database programs,
- Design process of databases,
- Information systems that are needed by architects in various organizations in construction industry, i.e., design offices, consultant companies and constructor firms,
- Practical study for developing a design-related database model in an object-oriented database development environment.

3. REQUIREMENTS FOR FINAL EXAM

- minimum 80% attendance to class,
- minimum 80% attendance to practical studies,
- submission of all assignments at a certain maturity level,
- presentation of one of the models in literature at a certain maturity level,
- submission of term project at a certain maturity level.

4. SUCCESS

CC or over is required for final grade that is the average of assignments and term project for success.

5. CALCULATION OF FINAL GRADE

- Assignment ----- 10%
- Mid-term exam ----- 20%
- Term project ----- 50%
- Final exam ----- 20%