ISTANBUL TECHNICAL UNIVERSITY \* GRADUATE SCHOOL OF SCIENCE ENGINEERING AND TECHNOLOGY

**ARCHITECTURAL DESIGN COMPUTING PROGRAM**

**DATABASE DESIGN & ITS APPLICATIONS IN ARCHITECTURE**

**CRN\_15056/2017-2018 PROGRAM**

Credit/Hours : 3 (3,0)

Prerequisite : None

C/E : Elective

Days and Hours : Monday, 13:30-16:30

Class : 119-A

Instructor : Alaattin KANOGLU, PhD, Professor

**SCHEDULE**

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| **DATE** | **CONTENT** |
| 11 SEP 17 | Introduction, Syllabus, Schedule, Assignment and Term Project |
| 18 SEP 17 | Introduction, Building Production Process, The participants of BPP, their roles, responsibilities, and interrelations, Information requirements of the participants in BPP, Information systems, components of information systems |
| 25 SEP 17 | 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 |
| 02 OCT 17 | Relational database structure and components, database development process in practical dimension, the architecture of database software, creating, compiling and integrating help files, |
| 09 OCT 17 | Databases that are needed by architects in various organizations in construction industry, i.e., design offices, consultant companies and constructor firms, Integrated Database Models for construction industry; Practical studies on relational database design |
| 16 OCT 17 | Examples of database models for construction industry |
| 23 OCT 17 | Introduction to term projects; definition of teams,  Submission of project proposals of teams |
| 30 OCT 17 | System analysis studies for term projects |
| 06 NOV 17 | Developing the conceptual models of term projects |
| 13 NOV 17 | Developing the conceptual models of term projects |
| 20 NOV 17 | Developing the practical model on MS Access Environment; definition of tables and relationships |
| 27 NOV 17 | Developing the practical model on MS Access Environment; definition of queries |
| 04 DEC 17 | Developing the practical model on MS Access Environment; development of forms and macros |
| 11 DEC 17 | Developing the practical model on MS Access Environment; development of reports |
| 18 DEC 17 | Developing the practical model on MS Access Environment; finalizing the models |
| XX JAN 18  (Final Exam) | Submission of the assignments and term projects |