COURSE DESCRIPTION AND APPLICATION INFORMATION

Course Name	Code	Semester	T+A+L (hour/week)	Type (C / O)	Local Credit	ECTS
Database Design and Management	IT 526	Spring	03+00+00	Elective	3	7.5

Academic Unit:	Management Information Systems
Mode of Delivery:	Face to face
Prerequisites:	None
Language of Instruction:	English
Level of Course Unit:	Graduate
Course Coordinator:	Ebru DİLAN
Course Objectives:	To provide a solid understanding of RDBMS (Relational Database Management Systems). The students will be able to carry out analysis, design, and implementation in the development of a RDBMS. Specifically, the students will be able to analyze a business and model the processes involved (formal systems analysis), design a conceptual database using Entity-Relationship diagrams, determine constraints, implement and maintain database objects (tables, constraints, indexes, etc.) and perform database operations using SQL and stored procedures/functions, and triggers. Effectively use environments/tools for communicating with the database server. Perform setup and essential maintenance of a professional database server. Work in a team to design and to develop a database for a given business, Prepare necessary documentation and presentation for the database project, and performing the presentation.
Course Contents:	Database management systems and IT data modeling E-R diagrams conceptual, logical and physical database design constraint modeling database architectures and the relational database model SQL: selection, DML, DCL, DDL operations stored procedures/functions, and triggers.
Learning Outcomes of the Course Unit (LO):	
Planned Learning Activities and Teaching Methods:	In class lectures, homework, project, midterm and final exams

WEEKLY SUBJECTS AND RELATED PREPARATIONS

Week	Subjects	Related Preperation

At Kadir Has University, a Semester is 14 weeks; The weeks 15 and 16 are reserved for final exams.

REQUIRED AND RECOMMENDED READING

Fundamentals of Database Systems, Ramez Elmasri, Shamkant B. Navathe

OTHER COURSE RESOURCES

1. Designing Effective Database Systems [elektronik kaynak/electronic resource], R. Riordan, Safari Books Online, 2005. KHÜ: QA76.9 .D26 R54 2005 2. Database System Concepts, A. Silberschatz, H. F. Korth, S. Sudarshan, McGraw Hill, 6th ed., 2011. KHÜ: QA76.9.D3 S55 2011 3. Fundamentals of Database Management Systems [elektronik kaynak/electronic resource] 2nd ed., M. L. Gillenson, Safari Books Online, 2012. KHÜ: XX(276592.1) 4. Database Systems [elektronik kaynak/electronic resource] : Concepts, Design and Applications 2nd ed., S. K. Singh, 2011. KHÜ: XX(278301.1) 5. Database Management Systems, G. V. Post, 2002. KHÜ:

QA76.9.D3 P67 2002 * KHU Information Center record number

ASSESSMENT METHODS AND CRITERIA

Semester Requirements	Number	Percentage of Grade (%)
Total:	**0**	**0**

WORKLOAD

Events	Count	Duration (Hours)	Total Workload (hour)
Total Workload (hour):			**0**

1 ECTS = 25 Hours Workload

THE RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES (LO) AND PROGRAM QUALIFICATIONS (PQ)

#	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12

Contribution: 1 Low, 2 Average, 3 High