Course title	Code	semester	T+U	credit	ECTS
Database and Management Systems 1		5	3+2	4	6

Prerequisite Courses	
Language of the Course	English
Type of Course	Compulsory
Course Coordinator	
Instructors	
Course Assistants	
The aim of lesson	the MSSQL Server database management system and to ensure that it is an expert in fixing the errors.
Course Learning Outcomes	**At the end of this course, the student;** 1. Relational structures in discrete mathematics to data modeling ability to apply. 2. Ability to design a physical database skill 3. Ability to analyze data modeling in an existing system and ability to improve. 4. Maintaining database security skill
Course Content	Components of database systems, database management system (DBMS) functions, architecture, data independence, data models, conceptual models, object-oriented models and relational data model. Translation of conceptual schemas to relational schemas, links, key types, functional dependency, multi-valued dependency and database design. In SQL; data definition commands, relational querying, data manipulation, SQL usage in applications and designed database update. SQL using One process creating, protection levels, use of trigger , procedure and function preparation, simultaneous control, homogeneous and heterogeneous Answers.

Weeks	Topics
one	Database Systems, Database Management System, (DBMS) Functions, Architecture
2	Data Independence, Data Models, Conceptual Models, Object Oriented Models and Relational Data Model.
3	Translating Conceptual Schemas to Relational Schemas, Bonds,
4	Key Types, Functional Dependence,
5	Multi-Value Dependency and Database Design
6	In SQL; Data Description Commands,
7	Relational Inquiry,
8	Data Editing,
9	Using SQL in Applications and Updating an Engineered Database.
10	Creating a Transaction Using SQL,
11th	Efficiency Characteristics
12	File Structures,
13	Index Files,
14	Complex (Hash) Files.

General Competencies

in SQL; It creates a database with data definition commands, relational querying, data editing, use of SQL in applications, and designed database update .

resources

Mcfadden , FR & Hoffer , JA, (1988). *Database Management*, The Benj./CPC _
Sen, ON, (2004). *Oracle (9i) - SQL, SQL+Plus , PL / SQL and Database Management* , Beta Edition Publication. Yarimağan , Ü., (2000). *Database Systems*, Academy Press .

Evaluation System

The dates, days and hours of the Midterm, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.

	WITH PROGRAM LEARNING OUTCOMES COURSE LEARNING OUTCOMES RELATIONSHIP TABLE										
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**
LO1	5	4	3	3	4	4	3	3	3	2	2
LO2	5	5	5	5	5	3	3	3	3	2	2
ÖK3	5	5	5	5	4	3	3	3	3	3	3
ÖK4	5	5	5	5	5	4	3	3	3	3	3
ÖK5	4	4	4	5	4	4	4	3	3	3	3
LO6	4	4	4	4	4	4	4	3	3	3	4
LO: Learning Outcomes OP: Program Outcomes											
Contribution	**1 Very Low**		**2 Low**		**3 Medium**		**4 High**		**5 Very High**		

Relation of Program Outcomes and Related Course

Lesson	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**
Database Management Systems	5	5	4	5	4	4	3	3	3	3	3