



F. Course Description

Course Name		Database Applications			
Course Language		Turkish			
Course Level		Associate Degree (x)	First Cycle (X)	Second Cycle ()	Third Cycle ()
Mode of Delivery					
Formal (x)		Distance Learning (x)		Others (x)	
Course Type		Course Unit Code		Course Code	
Required ()	Elective (x)	ENF		113	
Theory (Hours)	Application (Hours)	Total	Semester	National Credits	ECTS
2	0	2	Fall / Spring/Summer	2	4
Course Objectives		The aim of this course is teaching the basic concepts of the database, entity-relationship model, relational data model principles, relational database design, normalization and types, relational algebra and the basic concepts of relational algebra. Additionally it is aimed to teach of database design and develop database application.			
Course Content		Database, database design and applications.			
Pre-requisites					
Recommended Elective Courses					
Course Learning Outcomes		Students should be able to: 1. design a database model. 2. make improvement (normalization) on database design. 3. Design and query the database with SQL language. 4. use of a database management system effectively.			
Course Coordinator		Instructor Evren SEZGIN			
Course Lecturer(s)		Academic members of the department			
Teaching Methods					
(x) Oral Presentation		() Case Study		(x) Computer assisted	
() Discussion		() Drama		(x) Laboratory	
(x) Problem Solving		() Invention		(x) Motivations to show	
() Experiment		() Project		()	
Course Notes / Textbooks		<ol style="list-style-type: none"> Database systems, design, implementation and management (7 edition, Thomson), Peter Rob and Carlos Coronel.) For developers in SQL Server 2005 and Database Programming (Edition 1, Mc Graw Hill), Yasar Gözüdeli) Database Systems (2.baskı, Alpha Publications), Dr.Yalçın Özkan. 			
Evaluation System					
(x) Direct Conversion System				() Relative Assessment	
Mesarument and Evaluation System		Requirements		Number	Percentage of Grade
		Attendance		15	10 %
		Quizzes			
		Midterm Exam(s)		1	25 %
		Homework(s) / Seminar(s)			
		Term Assignment(s) / Project Application (Laboratory, Atelier , Field Work, Problem Based Learning- PBL Reports)		1	15 %
		Others (.....)			
		Final Exam		1	50 %
		Total		100 %	



Distribution of Topics By Weeks		
Weeks	Topics	Preparatory Work
1	Basic Concepts of Database	Setup Database Program
2	Entity-Relationship Model	
3	Relational Database Concept	
4	Data Base and Arithmetic Operations	
5	SQL Structured Query Language	
6	Limitation of data processing	
7	SQL Function Concept	
8	<i>Midterm</i>	
9	Concept and Analysis of Data Grouping	
10	Multiple SQL Statements Concept	
11	Complex SQL Queries	
12	Insert-Delete Table Row	
13	Database Objects	
14	Server - User Relations	
15	Create Store Procedure and Trigger	

Program Outcomes	Course Learning Outcomes*									
	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
PO 01- A basic, theoretical and practical knowledge about basic information technologies.	4	4	4							
PO 02- Information about design and development of hardware and software solutions.	3	3	4							
PO 03- Constructing and implementing identified problems and models at using use of information technology and applying of basic solution suggestions.	3	3	4	3						
PO 04- Developing software specifications defined which components.			5							
PO 05- Following current developments of information and communication technologies by awareness of lifelong learning necessity.	2	1	3	4						
PO 06- Communicating by published and visual materials developed information and communication technologies.			3	5						
PO 07- Having algorithmic thought and using planning approach on their applications.	5	3	5	2						
PO 08- Carrying professional and ethical responsibility having professional ethics awareness about IT applications. Taking necessary cautions about information security	1			3						

* 1: Low

2: Lowest

3: Average

4: High

5: Highest