	DATABASE	MAN	AGEMENT SYSTEMS						
1	Course Title:	DATABASE MANAGEMENT SYSTEMS							
2	Course Code:	END3238							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	3							
6	Semester:	5							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	1.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	2							
11	Prerequisites:	-							
12	Language:	English							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Dr. Ögr. Üyesi BESİM TÜRKER ÖZALP							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	tozalp@uludag.edu.tr, 0-224-2942090, Endüstri Müh. Bölümü Oda No:302 Görükle Bursa							
17	Website:	http://www20.uludag.edu.tr/~tozalp							
18	Objective of the Course:	The objective of this course is to learn how to design, manipulate and encourage the usage of database management systems for effective data management.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Define a Database Management System.						
		2	Define basic foundational terms of Database.						
		3	Analyze organizational information requirements using the entity-relationship approach and model them as Entity-Relationship Diagrams (conceptual database design).						
		4	Compare relational model with the Structured Query Language.						
		5	Ability to realize a database project within a group.						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
10/	The second second	Co	ourse Content:						
	Theoretical		Practice						
1	Database Systems, file systems vs. a		Working in Access 2007, Opening an Existing Database. Exploring tables, queries, forms, reports.						
2	Schemas, queries, structures.		Creating a database, manipulating table columns and rows.						

3	Introduction to Entity-Relationship Mo	odel.	Populating a database, importing information from another access database, excel worksheet, text file, dbase.							
4	Entitles, attributes and entity sets.		Creating a form by using the form tool, entering data in a form by using vba.							
5	Relationships and relationship sets, constraints, aggregation.		Creating a form by using an autoform, adding a subform to a form.							
6	Introduction to the relational model. C and modifying relations, key constrain		Sorting information in a table, filtering information in a table, filtering information by using a form.							
7	Foreign key constraints, general cons querying relational data.	straints,	Creating a query manually, creating a query by using a wizard, performing calculations by using a query.							
8	Entity sets to tables. Views, data independence, security, destroying/a tables and views.	Itering	Restricting the type and amonunt of data in a field.							
9	Relational algebra and calculus. relat algebra, selection and projection.	tional	Relational algebra and calculus. relational algebra, selection and projection							
10	Set operations, renaming, joins.		Preventing database problems.							
11	Division relational calculus, tuple rela	itional	С	reating a report by usi	ng a wizard, modify	ing report				
Activit	es		1-1	Number	Duration (hour)	Total Work Load (hour)				
Theore	Expressions and Strings in the SELE	СТ		14	1.00	14.00				
Practica	Command UNION INTERSECT an als/Labs	d	<u> </u>	14	2.00	28.00				
Self stu	dy and preperation			14	2.00	28.00				
Homew		•		1	2.00	2.00				
Project	6			1	15.00	15.00				
Field S	tudies			0	0.00					
Midtern	n exams			1 1	1.50	1.50				
Others	-			0	0.00	0.00				
Final E	rams Textbooks, References and/or Other		R	. ¹ Ramakrishnan,J. Gel	1ke, Database Mar	agement				
	/ork Load					90.00				
Total w	ork load/ 30 hr			002		3.00				
ECTS	Credit of the Course					3.00				
				bor Step by Step, Initia						
23	Assesment									
TERM LEARNING ACTIVITIES NUMBE R				WEIGHT						
Midtern	n Exam	1	25.00							
Quiz		0	0.00							
Home v	work-project	1	25.00							
Final E	xam	1	50.00							
Total		3	100.00							
	ution of Term (Year) Learning Activitie s Grade	es to	50.00							
Contrib	ution of Final Exam to Success Grade	e	50.00							
L			-							

Total								10	100.00								
Measurement and Evaluation Techniques Used in the Course							ne										
24 E	CTS/	STS / WORK LOAD TABLE															
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	2	3	3	4	1	0	1	0	0	0	0	1	4	0	1	0	
ÖK2	2	3	3	4	1	0	1	0	0	0	0	1	4	0	1	0	
ÖK3	2	3	3	4	1	0	1	0	0	0	0	1	4	0	1	0	
ÖK4	2	3	3	4	1	0	1	0	0	0	0	1	4	0	1	0	
ÖK5	0	0	0	0	0	5	5	0	0	0	0	0	0	5	0	0	
		· I	LO: L	earr	ning (Dbjec	tive	s P	Q: P	rogra	ım Qu	alifica	ations	5 5		4	
Contrib 1 very low ution Level:			2 Iow		3	Medi	edium 4 High			5 Very High							