WAYN WAYN 1883

MARMARA UNIVERSITY - Faculty of Engineering

Computer Engineering

SYLLABUS

1883			2021-2022 Fall	Semester					Level of Course :	First Cycle	
Course Code			Course Title	Type of Course	Wee	kly Co Hours		Credits	ECTS Credits	Campus / Weekly Time & Classroom Schedule	
CSE3055	Data	abase S	Systems	Compulsory	3	0	2	7	7	Wed 10.30-12.30 Online, Fri 15.00-16.00 Online; Lak	
Prerequisite	CSE2	CSE2025 Data Structures			equisite to			CSE3044 So Enginering	oftware	1: Tue 16.00-18.00 Online; Lab 2: Thu 16.00-18.00 Online.	
Course Lecturer	Assoc.Prof.Dr. Mustafa AĞAOĞLU						Offic	ce Hours	Mon 09.00-10.00; Wed 09.00-		
E-mail	agaoglum@gmail.com				Schedule			edule	10.00.		
Phone							Offic	ce / Room No	M2-221		
Teaching Assistant(s)	Res.Asst. Serap KORKMAZ						Pho	ne			
E-mail	serap	.korkma	az@marmara.edu.tr				Offic	ce / Room No	M2-201		
Course Objectives Recommended or	will be	This couse aims to introduce the basic concepts of database design to the students. Besides teaching database theory in the lectures, MS SQL Server will be used in the lab. Students will develop a working database system as term project. 1. Modern Database Management: 11th Edition: LA Hoffer, P. Vonkatagement H. Toni: Prontice Hall: 2013									
Required Reading											
Learning Outcomes	 Implement SQL: Data definition, constraints, schema, queries and operations in SQL. Implement the relational database design and data modeling using entity-relationship (ER) model. Understand database concepts, applications, data models, schemas and instances. Understand the concepts of constraints and relational algebra operations. Build, design and tune databases using database management system software package. 										
Planned Learning Ac		Presenta	tion			N	lode	of Delivery	Face-to-fac	e	
WEEK	0	Date	Course Contents						'	Reference No - Section	
Week 1			Introduction & The Database Environment and Development Process							1-Ch.01	
Week 2	_	neworks	Modeling Data in the Organization							1-Ch.02	
Week 3	Monda Monda	ostly due ay.	The Enhanced E-R Model + HW#1							1-Ch.03	
Week 4			Logical Database Design and the Relational Model + HW#2 + Quiz#1							1-Ch.04	
Week 5	2- Qui	zzes will	Introduction to SQL + HW#3							1-Ch.06	
Week 6	Thurso	•	SQL Statements + HW#4 + Quiz#2							1-Ch.06	
Week 7			Advanced SQL + HW#5							1-Ch.07	
Week 8		- Quiz weeks re tentative. Midterm Exam									
Week 9	are tentative.		Physical Database Implementation								
Week 10			Functional Dependency and Normalization + HW#6							1-Ch.04	
Week 11			Physical Database Design and Performance & Index + HW#7 + Quiz#3							1-Ch.05	
Week 12			Stored Procedures and Triggers + HW#8								
Week 13			Database Application Development + HW#	9						1-Ch.08	
	1									1-Ch.09	
Week 14			Data Warehousing + HW#10 + Quiz#4								
Week 14 Week 15			Data Warehousing + HW#10 + Quiz#4 Data and Database Administration							1-Ch.11	

Week 17	Final Exam				
	Assessment Method (Tentative)	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1		40,00	0
	Semester Evaluation			60,00	100
Assessment	Midterm Exam	1		18,00	30,0
Methods and	Quiz	4		8,00	13,3
Criteria	Pop-quiz	14		10,00	16,7
(TENTATIVE)	Project - Step 1: Proposal	1		1,00	1,7
	Project - Step 2: Req. Ana. & EER	1		2,00	3,3
	Project - Step 3: Database Imp.	1		8,00	13,3
	Project - Step 4: Web Interface	1		3,00	5,0
	Homework	10		10,00	16,7

***		ECTS Credit Calculation ***	Language	of Instruction:	English	
Evaluation Tool	Hour/Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours	
Theoretical hours	3,0	42,0	Quiz & preparation	4	12,0	
Applied hours	0,0	0,0	Homework	10	10,0	
Laboratory	2,0	28,0	Project	4	35,0	
Pre-class self study	0,2	2,8	Research and presentation	0		
Post-class self study	0,5	7,0	Seminar	0		
Post-application self study	0,2	2,8	Field study	0		
Exam preparation & Midterm	1	15,0	Atelier	0		
Exam preparation & Final	1	20,0	Other	0		
GENERAL TOTAL: 25,9						
Recommended ECTS Credit (Total Hours / 25):						