MARMARA UNIVERSITY - Faculty of Engineering



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Laboratory

Field Study

Atelier

Other

0,0

0,0

0,0

0,0

0,0

Computer Science Engineering

SYLLABUS

2020-2021 Fall Semester										
					Weekly Course				Commus / Wookly Time 9	
Course Code			Course Name	Course Type	Т	A L	Credits	ECTS	Campus / Weekly Time & Classroom Schedule	
CSE2023	Discrete Com		putational Structures	Compulsory	3	0 0	3	6	Wednesday 12:00-13:50 Thursday 13:00-13:50	
Prerequisite				Prereq	uisite	to	CSE364		Zoom Meeting ID: 939 0882 9206 Passcode: 654321	
Course Lecturer	Assoc. Prof.Dr. Ali Fuat ALKAYA Office Hours							Wednesday 14:00-15:30		
E-mail	falkaya@marmara.edu.tr Sci						Schedule Vedicious 27.00 25.50			
Phone	(0216) 777 3532 Office / Room No Zoom Meetin							Zoom Meeting ID: 7	54 2298 5847, Passcode: 1357	
Teaching Assistant(s)	Muh	ammed A					(0216) 777 3545			
E-mail	muhammed.avcil@marmara.edu.tr Office / Room No MB342									
Course Objectives	Aim of the course is to provide necessary backgroung to the students to think logically and mathematically. In order to achieve this the focus is on mathematical reasoning and the different problem solving approaches. The course covers the following fundemental topics; mathematical reasoning, proof techniques, combinatorial analysis, discrete structures, algorithmic thinking, and applications and modeling.									
			athematics and Its Applications 7th edition, Kenneth H. Rosen, McGraw Hill							
	2.		moza.marmara.edu.tr/~falkaya/cse223							
Textbooks	3.	www.can	<u>nvas.net</u>							
and/or										
References										
WEEK	Date		TOPICS						Reference No - Section	
Week 1	12.10.2020		-						1.1-1.3	
Week 2		.10.2020	Quantifiers and Methods of Proofs						1.4-1.5	
Week 3	26.10.2020 2.11.2020		Methods of Proofs Sets						1.6-1.8	
Week 4 Week 5		11.2020							2.1-2.2 2.3-2.5	
Week 6		.11.2020							4.1-4.5	
Week 7	23.11.2020		Induction and Recursion	5.1,5.3,5.4						
Week 8	7.1	12.2020	Counting Techniques						6.1-6.3	
Week 9	14.	.12.2020							8.1,8.2	
Week 10									9.1,9.3-9.5	
Week 11		.12.2020							10.1-10.3	
Week 12		01.2021							10.4-10.6	
Week 13		11.01.2021 Trees 18.01.2021 Algorithm Complexity							11.1-11.5 3.1-3.3	
Week 14	10.	.01.2021						Weight in	Weight in	
			Evaluation Tool	Quantity		Da	te	Total (%)	Semester Evaluation (%)	
			Final Exam	1				40	0	
			Final Make-up Exam (if exists)	1		-	-	40	0	
			Semester Evaluation 60						100	
Evaluation Tools			Midterm	1				30	50,0	
			Quizzes + Attendance	14	14		-	10	16,7	
			Project(s)	0			0	0,0		
			Homeworks	7		Biwe	ekly	20	33,3	
			Laboratory	0		-	<u> </u>	0	0,0	
			Other	0				0	0,0	
			<u> </u>					<u>.</u>	-,-	
*** Lifelong Learning Programme (LLP) *** Language of Instruction: English										
Evaluation Tool		uantity	Student Workload Hours		Fyeli	ation To		Quantity	Student Workload Hours	
Theoretical	۷	3	42,0					Quantity 2	0,0	
Hours Midtorm		7		cu moul	<u> </u>		·			
Midterm			6,0		Final			1	6,0	

TOTAL : Recommended ECTS Credit (Total Hours / 25): 6

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7

0

0

1

15

0,0

70,0

0,0

0,0

14,0

138,0

Project

Seminar

Homework

Presentation

Self Study