	EARTHQUAKE RE	SIST	ANT STRUCTURAL DESIGN						
1	Course Title:	EARTHO	QUAKE RESISTANT STRUCTURAL DESIGN						
2	Course Code:	INS6033							
3	Type of Course:	Optional							
4	Level of Course:	Third Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Dr. Ögr. Üyesi SERKAN SAĞIROĞLU							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Dr. Öğr.Üye. Serkan SAĞIROĞLU							
17	Website:								
18	Objective of the Course:	To learn earthquake concepts, principles of earthquake resistant building design, rules in earthquake regulations and the reasons for these rules.							
19	Contribution of the Course to Professional Development:	This course will contribute to the student in terms of knowledge about the occurrence of earthquakes and basic seismology, knowledge of earthquake spectra, knowledge of the behavior of structures during earthquakes, and knowledge of the current earthquake regulations.							
20	Learning Outcomes:								
		1	To provide information about the formation of earthquakes and basic seismology						
		2	To provide information about earthquake spectra						
		3	To provide information about the behavior of structures during earthquakes						
		4	To convey information about the current earthquake regulations						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
107	T. C. 1	Сс	ourse Content:						
	Theoretical		Practice						
1	Introduction								

23	LEARNING ACTIVITIES	NUMBE		.1/ *UT					
	Assesment			EIGHT					
22	Textbooks, References and/or Other Materials:		"Deprem-Zemin ve Depreme Dayanıklı Yapı Tasarımı", Adem Doğangün, Birsen Yayınevi, İstanbul, 2021. "Deprem Mühendisliğine Giriş ve Depreme Dayanıklı Yapı Tasarımı", Z. Celep, N. Kumbasar, Beta Dağıtım, İstanbul, 2000.						
	earthquake code,								
ECTS	Credit of the Course					6.00			
Total w	vork load/ 30 hr					5 87			
Total V	Vork Load					176.00			
1	Larthquake resistant design rules for large to the large		1		50.00	50.00			
Others					0.00	0.00			
	ducibles Teapacity principle in difficulting, in duciblity level and normal systems	ign			0.00	0.00			
Project Field S	tssecond order effects				0.00	0.00			
Homev	,				0.00	0.00			
	Genter of stiffness finding the center	Of	4	14	6.00	84.00			
	cals/Labs		C		0.00	0.00			
Theore	livioue superposition method lical			14	3.00	42.00			
Activi			١	Number	Duration (hour)	Total Work Load (hour)			
7	Ductility concepts in buildings, calcul methods of earthquake loads acting buildings, creation of the design earth	on							
6	Irregularities defined in the earthqual regulation, conditions related to irreg buildings, irregularities in plan and ve issues to be considered while creating carrier system	ular ertical,							
5	Earthquake resistant building design principles, earthquake safety, earthque regulations in our country, general be the building during an earthquake.	uake							
4	Spectrum concept, dynamical equation of single degree of freedom s creation and properties of earthquakeresponse acceleration spectra	ystems,							
3	Measuring earthquake motion, earthquake intensity, earthquake intensity scales earthquake magnitude measurements, earthqual energy, earthquake energy measuremearthquake intensity maps	ke							
	characteristics, important fault syster properties in our country, earthquake and their properties, earthquake surf- focal center, determination of the ear center	waves ace and thquake							

Home work-project	0	0.00						
Final Exam	1	100.00						
Total	1	100.00						
Contribution of Term (Year) Learning Activities Success Grade	es to	0.00						
Contribution of Final Exam to Success Grade	)	100.00						
Total		100.00						
Measurement and Evaluation Techniques Us Course	sed in the	Exam						
A4 FOTO / WORK LOAD TABLE								

## 24 ECTS / 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	3	0	3	0	0	3	0	0	0	0	3	0	0	0	0	0
ÖK2	4	3	3	3	0	3	3	0	0	2	3	2	0	0	0	0
ÖK3	3	3	4	3	2	4	3	0	0	2	2	0	0	0	0	0
ÖK4	0	2	0	0	5	3	4	2	0	0	0	5	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution				3 Medium			4 High			5 Very High					