REINFORCED CONCRETE BRIDGE DESIGN									
1	Course Title:	REINFO	RCED CONCRETE BRIDGE DESIGN						
2	Course Code:	INS5038							
3	Type of Course:	Optional							
4	Level of Course:	Second Cycle							
5	Year of Study:	1							
6	Semester:	2							
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:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr. ADEM DOĞANGÜN							
15	Course Lecturers:	Doç.Dr. Hakan Tacettin Türker							
16	Contact information of the Course Coordinator:	Prof.Dr. Adem DOĞANGÜN							
17	Website:								
18	Objective of the Course:	To provide the necessary skills for the calculation and design of bridges							
19	Contribution of the Course to Professional Development:	To be able to calculate and design bridges							
20	Learning Outcomes:								
		1	Learning the vertical load carrying mechanisms of different bridge structural systems						
		2	Learning the lateral load carrying mechanisms of different bridge structural systems						
		3	Being able to identify structural failures						
		4							
		5							
		6							
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		8							
		9							
1									
21	Course Content:								
١٨/	Th (' 1	Co	purse Content:						
	Theoretical		Practice						
1	General knowledge and definitions. Classification of bridges:	-1.							
2	Slab bridges, slab-beam (simple, bre Gerber, Truss, grate) bridges	eak-front,							
3	frame bridges								
4	arc (with three and two joints, bowstr fixed) bridges	ing and							

	T							
5	arc (with three and two joints, bowstr fixed) bridges	ing and						
6	Loads according to T.C. Highway specification.							
7	Reinforced concrete specifications ar principle	nd basic						
8	bridge supports.							
9	Joints.							
10	Middle and end foots.							
11	bridge projects.							
12	bridge projects.							
13	bridge projects.							
14	bridge projects.							
22	Textbooks, References and/or Other Materials:		Guide Specifications for Seismic Design of Highway Bridges,AASHTO,2001. Celasun H.,Betonarme Köprüler,Çağlayan Yay.,1980. Ekiz İ., Köprü Problemleri, Çağlayan Yay.,1976. Rowe R.E.,Concrete Bridge Design,Elsevier Publ.Comp.,Amsterdam,1982.					
23	Assesment							
TERM I	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midterr	n Exam	1	40.00					
Quiz		0	0.00					
Home	work-project	0	0.00					
Final Exam 1			60.00					
Total 2			100.00					
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contribution of Final Exam to Success Grade			60.00					
Total			100.00					
Measu Course	rement and Evaluation Techniques Us	sed in the	Midterm and Final exam					
	•	sed in the	Midterm and Final exam					

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	9.00	126.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	3.00	3.00
Others	0	0.00	0.00
Final Exams	1	3.00	3.00
Total Work Load			174.00
Total work load/ 30 hr			5.80
ECTS Credit of the Course			6.00

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	3	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	5	1	0	0	2	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	1	0	0	0	0	0	4	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		2	2 low	3	3 Medium		4 High		5 Very High			ı				