	MASTER BUIL	DING	DESIGN PRINCIPLES						
1	Course Title:	MASTER	R BUILDING DESIGN PRINCIPLES						
2	Course Code:	INS4034							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	8							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	1.00							
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:	Prof. Dr.	Adem DOĞANGÜN						
16	Contact information of the Course Coordinator:	adogangun@uludag.edu.tr							
17	Website:	http://insaat.uludag.edu.tr/							
18	Objective of the Course:	To enable them to interpret the behavior of masonry structures by calculating and designing them.							
19	Contribution of the Course to Professional Development:	To gain skills in the design of masonry structures							
20	Learning Outcomes:								
		1	Be able to describe the behavior of different types masonry structures						
		2	Be able to understand fundamental calculations						
		3	Be able to know basics codes and specification for masonry structures						
		4	Be able to know practice problems and solutions encountered in application						
		5	Be able to check the results obtained from computer programs frequently used in applications						
		6	Be able to differentiate which analyses should be carried out for each reinforced concrete elements						
		7							
		8							
		9							
	0 0	10							
21	Course Content:		and a Complete						
\\\astr	Theoretical	Co	urse Content:						
Week 1	Theoretical History, application fields of reinforce	ed	Practice						
	concrete structures, advantages and disadvantages								
2	Materials in masonry structures,								
3	Types of masonry structures								

<b>4</b> Si	Simple masonry structures																			
<b>5</b> re	reinforced masonry structures.																			
	arthqua inciple:		sistant	maso	onry de	sign		Pr	Problem solving											
<b>7</b> Co	odes fo	r mas	onry																	
<b>8</b> Co	Codes for masonry									Problem solving										
	arthqua ucture		sign m	ethoo	ds of m	asonr	у													
<b>10</b> Br	ick ma	sonry	struct	ures				Pr	Problem solving											
	Earthquake calculations of masonry structures selected as examples.																			
	·									Problem solving										
<b>13</b> Da	·									solving	3									
<b>14</b> M	Masonry structure strengthening																			
	Materials:								Bayülke, N, Depreme Dayanıklı Betonarme ve Yığma Yapı Tasarımı, İMO İzmir, 1993.     Paulay, T., Priestley; M.J.N., Seismic design of reinforced concrete and masonry buildings, John Wiley & Sons, New York 1990.											
<b>23</b> As	sesme	ent																		
	Activites							Numb	er		Dura	Duration (hour)			Total Work Load (hour)					
Theoretica	al					U		101	14			2.00		28.00						
Practicals		act				ما			14					14.00						
Self study	<del></del> and pi	repera	tion			Τ.		74	14				4.00			56.00				
Homewor	19 14									1					14.00					
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Field Stud										0 0.00					0.00					
Midterm e	erm exams									100.00					2.00					
Others	rs									0.00					0.00					
Course xar	asurement and Evaluation recliniques osed in them alse													4.00						
Total Wor	al Work Load								118.00											
	Fotal work load/ 30 hr								3.93											
ECTS Cre	ECTS Credit of the Course								4.00											
25	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	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0				
ÖK2	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
ÖK3	0	0	0	0	0	0	0	5	0	0	4	0	0	0	0	0				
ÖK4	0	2	0	2	0	0	0	0	0	0	4	0	0	0	0	0				

ÖK5	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0
ÖK6 0 5 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
Contrib 1 very low ution Level:			2	2 low		3 1	Medi	um	4 High			5 Very High				