	WATER RE	SOUF	RCES ENGINEERING							
1	Course Title:	WATER	RESOURCES ENGINEERING							
2	Course Code:	INS4051								
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	cle							
5	Year of Study:	4								
6	Semester:	7								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	1.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. Adem AKPINAR								
15	Course Lecturers:	Doç Dr Serdar Korkmaz								
16	Contact information of the Course Coordinator:	ademakpinar@uludag.edu.tr 0224 24 26 25								
17	Website:	http://insaat.uludag.edu.tr/								
18	Objective of the Course:	To know the development and control methods of water resources; to gain basic knowledge on the planning and management of hydraulic structures; to know the methods regarding the location and effective usage of water resources in energy production.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learn basic concepts about water resources.							
		2	Know flood protection and design protection structures.							
		3	Know river structures, carry out hydraulic computations and decide on dimensions.							
		4	Know and comprehend the efficient and effective usage of water resources.							
		5	Carry out research and present the knowledge gained in oral and written forms.							
		6								
		7								
		8								
		9								
		10								
21										
101	<i>,,</i> .	Co	ourse Content:							
	Theoretical		Practice							
1	Development and planning of water resources									
2	River morphology									
3	Solid particle movement in rivers, be movement	d	Problem solving							

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4	Solid particle movement in rivers, measurement and computations		Problem solving							
5	River rehabilitation and planning		Problem solving							
6	River rehabilitation structures		Problem solving							
7	Flood protection		Problem solving							
8	River crossing		Problem solving							
9	Diversion weirs		Problem solving							
10	Diversion weirs		Problem solving							
11	Dams									
12	Dams		Problem solving							
13	Water intakes and Energy dissipat structures	ion	Problem solving							
14	Water intakes and Energy dissipat structures	ion	Problem solving							
22	Textbooks, References and/or Oth Materials:	er	1. Erkek, C., Ağıralioğlu, N., 2006, Su Kaynakları Mühendisliği, Beta Press. 2. Erkek, C., Ağıralioğlu, N., 2006, Su Kaynakları Mühendisliği problemleri ve çözümleri, Beta Press. 3. Yanmaz, A.M. (2006). Applied Water Resources Engineering, METU Press. 4. Mays, Larry W,2010, Water Resources Engineering, John Wiley & Sons. 5. French, R. H. (1985), Open-Channel Hydraulics, McGraw-Hill, New York.							
Activit	es		Number	Duration (hour)	Total Work Load (hour)					
Theore	tical		14 WEIGHT	3.00	42.00					
	EARNING ACTIVITIES als/Labs	NUMBE	IWEIGHT 14	1.00	14.00					
	nd <del>√</del> જાતે. જો preperation	1	30,00	4.00	56.00					
Homew	·		6	6.00	36.00					
	york-project	6	1000	0.00	0.00					
Field S			0	0.00	0.00					
<b>™</b> Retreern	m exams	8	100.00	2.00	2.00					
Others			0	0.00	0.00					
Succes Final E	xams		1	2.00	2.00					
Total W	Vork Load				152.00					
Tetal w	ork load/ 30 hr		100.00		5.07					
	Credit of the Course				5.00					
COURSE COMPANY OF TARILE										
24   ECTS / WORK LOAD TABLE										
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 ÖK2 ÖK3

ÖK4	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5 0 3 0 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 Medium			4 High			5 Very High				