WATER RESOURCES ENGINEERING									
1	Course Title:	WATER	RESOURCES ENGINEERING						
2	Course Code:	INS4051							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
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 f	face						
14	Course Coordinator:	Doç.Dr. /	Adem AKPINAR						
15	Course Lecturers:	Doç Dr Serdar KORKMAZ							
16	Contact information of the Course Coordinator:	skorkmaz@uludag.edu.tr 0224 24 09 04							
17	Website:	http://insaat.uludag.edu.tr/							
18	Objective of the Course:	To know to gain b hydraulic and effec	the development and control methods of water resources; asic knowledge on the planning and management of structures; to know the methods regarding the location ctive 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	21 Course Content:								
\A/	Course Content:								
VVEEK	I neoretical		Practice						
	resources								
2	River morphology		Recitation						
3	Solid particle movement in rivers, be movement	d	Recitation						

4	Solid particle movement in rivers, measurement and computations		Recitation							
5	River rehabilitation and planning		Recitation							
6	River rehabilitation structures		Recitation							
7	River rehabilitation structures		Recitation							
8	Repeating courses and midterm example	m	Recitation							
9	Flood control		Recitation							
10	Flood protection techniques and rout	ing	Recitation							
11	Flood protection structures		Recitation							
12	River crossing		Recitation							
13	Diversion weirs		Recitation							
14	Diversion weirs		Recitation							
22	Textbooks, References and/or Other Materials:		 Yanmaz, A.M. (2006). Applied Water Resources Engineering, METU Press. French, R. H. (1985), Open-Channel Hydraulics, McGraw-Hill, New York. Chow, V. T. (1959), Open-channel Hydraulics, McGraw- Hill, New York. 							
23	Assesment									
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midtern	n Exam	1	30.00							
Quiz		0	0.00							
Homew	vorks, Performances	6	10.00							
Final E	xam	1	60.00							
Total		8	100.00							
Contrib Succes	oution of Term (Year) Learning Activitie ss Grade	es to	40.00							
Contrib	ution of Final Exam to Success Grade	Э	60.00							
Total			100.00							
Measu Course	rement and Evaluation Techniques Us									
24 ECTS / WORK LOAD TABLE										
Activit	:es		Number	Duration (hour) Total Wo Load (hou						
Theore	tical		14	3.00	42.00					
Practic	als/Labs		14	1.00 14.00						
Self stu	udy and preperation		14 4.00 56.00							
Homew	vorks, Performances		6	6.00	36.00					
Project	s		0	0.00	0.00					
Field S	tudies		0	0.00	0.00					
Midtern	n exams		1 2.00 2.00							
Others			0	0.00	0.00					
Final E	xams		1	2.00	2.00					
Total W	Vork Load				154.00					
I otal w	ork load/ 30 hr				5.07					
ECTS	Credit of the Course				5.00					

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	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	4	4	4	0	0	0	0	4	0	4	4	0	0	0	0
ÖK5	0	3	0	0	0	0	5	4	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	rib n 1 very low el:		2 low			3 Medium		4 High		5 Very High						