WATER RESOURCES ENGINEERING									
1	Course Title:	WATER	RESOURCES ENGINEERING						
2	Course Code:	INS4051							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
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:	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 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	Course Content:								
107	 1 1	Co	ourse Content:						
	Theoretical		Practice						
1	Development and planning of water resources		Recitation						
2	River morphology		Recitation						
3	Solid particle movement in rivers, be movement	d	Recitation						

	lid particle movement in rivers,		Recitation						
	easurement and computations								
	ver rehabilitation and planning		Recitation						
6 Riv	ver rehabilitation structures		Recitation						
7 Riv	ver rehabilitation structures		Recitation						
8 Rep	peating courses and midterm exan	n	Recitation						
9 Flo	ood control		Recitation						
10 Flo	ood protection techniques and routi	ng	Recitation						
11 Flo	ood protection structures		Recitation						
12 Riv	ver crossing		Recitation						
13 Div	version weirs		Recitation						
14 Div	version weirs		Recitation						
	xtbooks, References and/or Other aterials:		 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 Ass	sesment								
TERM LEAF	RNING ACTIVITIES	NUMBE R	WEIGHT						
Midterm Ex	xam	1	30.00						
Quiz		0	0.00						
Homeworks	s, Performances	6	10.00						
Final Exam 1			60.00						
Total		8	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			40.00						
Contributio	on of Final Exam to Success Grade	.	60.00						
Total			100.00						
Measurement and Evaluation Techniques Used in the Course									
24 EC	CTS / WORK LOAD TABLE	24 ECTS / WORK LOAD TABLE							

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	4.00	56.00
Homeworks, Performances	6	6.00	36.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	2.00	2.00
Others	0	0.00	0.00
Final Exams	1	2.00	2.00
Total Work Load			154.00
Total work 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 1 very low Level:		2	2 low 3 M			3 Medium			4 High		5 Very High					