		HYD	ROLOGY						
1	Course Title:	HYDROI	_OGY						
2	Course Code:	BSM3513-Z							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	le						
5	Year of Study:	3							
6	Semester:	5							
7	ECTS Credits Allocated:	3.00							
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. Ali Osman Demir							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	e-posta : aodemir@uludag.edu.tr Telefon: 0 224 2941616 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA							
17	Website:								
18	Objective of the Course:	The objective of this course is to comprehend the basic hydrological processes for improvement and management of agricultural watersheds and perform fundamental hydrological analysis for design of water structures, surface drainage systems, and the projects concerning sustainable use of natural resources (soil and water).							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	perform the measurements of precipitation, evaporation and flow						
		2	analyze precipitation, evaporation and flow records						
		3	make infiltration analysis						
		4	determine design runoff rate of watershed using the methods based on rainfall-runoff relations						
		5	estimate the annual water yield of the watershed						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	Hydrologic cycle								
2	Rainfall and rainfall measurement		Rainfall measurement at the meteorological station						

3	Analysis of precipitation records		A pi	Analysis of precipitation records at the computerized project classroom							
4	Evaporation		E	Evaporation measurement at the meteorological station							
5	Infiltration		In cl	Infiltration calculation at the computerized project classroom							
6	Groundwater flow		С рі	Calculations of groundwater flow at the computerized project classroom Flow velocity measurement with flow meter and discharge							
7	Flow measurements and data analys	sis	Fl m	Flow velocity measurement with flow meter and discharge measurement on a small river							
8	Repeating courses and midterm example	m									
9	Runoff		Calculation of peak runoff of the watershed at the computerized project classroom								
10	Hydrograph and hydrograph analysis	3	Hydrograph analysis at the computerized project classroom								
11	Hydrograph and hydrograph analysis	3	H W	Hydrograph analysis and calculation of peak runoff of the watershed at the computerized project classroom							
12	Estimation of annual water yield of th watershed	IE	Estimation of annual water yield of the watershed at the computerized project classroom								
13	Applications of probability theory and statistics in hydrology	1	Applications of probability theory and statistics in hydrology at the computerized project classroom								
14	Applications of probability theory and statistics in hydrology	1	A hy	Applications of probability theory and statistics in hydrology at the computerized project classroom							
22 Activit	Textbooks, References and/or Other Materials: es		1. 9 2	. BAYAZIT, M., 2003. " 75-511-364-9, İstanbul BAYAZIT. M AVCI. İ Number	2003. "Hidroloji", Birsen Yayınevi, ISBN İstanbul AVCI. İ. ve SEN. Z.: 1997. "Hidroloii Duration (hour) Total Work Load (hour						
Theore	tical		F	aktultesi Yayın No: 138	8, <b>D</b> @ers Kitabı: 402,	1Ath Robra.					
Practic	als/Labs			14	2.00	28.00					
Self stu	dy and preperation		N	attoral Reso	groes Conservation	286000ice.					
Homew	vorks		14	1	4.00	4.00					
Project	8		С	atchments". Academic	P.1005, Inc., ISBN 0-	1 <u>02</u> 03012340-2,					
Field S	tudies		16.1	0	0.00	0.00					
Migligern	<del>ମହୁହ</del> େନ୍ଦ୍ରରୋହ		-	1	6.00	6.00					
Others				0	0.00	0.00					
Final E	xams	R		1	12.00	12.00					
Total W	Vork Load	11				96.00					
Total w	ork load/ 30 hr	0	D.	00		3.00					
ECTS (	Credit of the Course	10	ما	00		3.00					
гпа е	xam		0	0.00							
Total		2	1(	00.00							
Contrib Succes	oution of Term (Year) Learning Activities s Grade	es to	40.00								
Contrib	ution of Final Exam to Success Grade	е	60.00								
Total			100.00								
Measu Course	rement and Evaluation Techniques Us	sed in the									
24	24 ECTS / WORK LOAD TABLE										

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	4	3	4	3	0	2	2	0	3	5	0	0	0	0	0
ÖK2	5	4	3	4	4	0	2	2	0	3	5	0	0	0	0	0
ÖK3	4	3	3	4	5	0	2	2	0	3	5	0	0	0	0	0
ÖK4	4	4	3	4	4	0	2	2	0	3	5	0	0	0	0	0
ÖK5	5	4	3	4	4	0	2	2	0	3	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 ver ution Level:		/ery	low	2 low			3 Medium			4 High			5 Very High			