	ADVA	NCE	HYDROLOGY						
1	Course Title:	ADVANO	CED HYDROLOGY						
2	Course Code:	BSM600	4						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
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:								
17	Website:								
18	Objective of the Course:								
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To understand the hydrological cycle models;						
		2	To understand basic climate parameters in term of irrigation;						
		3	To understand the events in the atmospherer which causes rainfall;						
		4	To explain the formation, volumetric exchange and use of the groundwater;						
		5	To explain the issues of surface water resources, surface storage, runoff and the terms of use of these resources;						
		6	To explain the tools and methods used in hydrological data measurements;						
		7	To understand and use of unit hydrograph;						
		8	To apply the statistical methods in hydrology;						
		9							
		10							
21	Course Content:								
107		Со	purse Content:						
	Theoretical		Practice						
2	Basic hydrological pocesses								
3	Atmospheric water Ground water, aquifer, and ground w	rater flow							
	processes	vater now							
4	Surface water, river flow, lake and su water flow processes and models	urface							

5	Meas	surer e toll:	ments s for r	of hyd	drolog reme	gical da	ata, us	ing of												
6	Prep	erati	on of	unit h	ydrog	raph														
7	Using	g of t	time s	eries i	in wat	er flow	,													
8	Using	g of f	finite e	eleme	nts m	ethods	in hyd	drolog	у											
9	Dyna	mic	wave						Т											
10	Hydro	ologi	ical st	atistic																
11	The f	requ	iency	analy	sis															
12	Proba	abilit	y in h	ydrolo	gy															
13	Using	g of I	hydrol	logy ir	desi	gn														
14			of exti ervoir		hydro	logical	event	s for												
22	Textbooks, References and/or Other Materials:									1. Chow V.T., Maidment D.R. and Mays L.W. 1988. Applied Hydrology. McGraw Hill Book Company, USA.										
23	Asse	sme	nt																	
TERM I	RM LEARNING ACTIVITIES NUMBE								W	WEIGHT										
Midterr	Midterm Exam 0							0.0	0.00											
Quiz	Quiz 0								0.0	0.00										
Home	work-p	oroje	ct				2		40	40.00										
Final E	xam						1		60	60.00										
Activites								Numb	er		Dura	ition (′	Total Work Load (hour)						
Checrit	eticialn	of Fi	inal E	xam to	Suc	cess G	rade		60	1 6 0			3.00			42.00				
Practic	als/La	ıbs							(0			0.00			0.00				
Relasti	Hemen	ld ahr	apeva	ticatio	n Tec	hnique	s Use	d in th	ie i	10 4.00						40.00				
Homev	works									2			20.00			40.00				
Prefect	_{ts} ECT	S/	WOI	RK L	OAD	TAB	LE		(0			0.00		0.00					
Field S	Studies	3								0			0.00		0.00					
Midterr	m exar	ms							(0			0.00		0.00					
Others									(0			0.00		0.00					
Final E										1			33.00		$\overline{}$	33.00				
Total V																155.00				
	Total work load/ 30 hr													$\overline{}$	5.17					
ECTS	Credit	of th	ne Co	urse												5.00				
25				CON	TRIE	BUTIC	N O				OUTC		S TO I	PROC	SRAM	ME				
	P	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
ÖK1	5	5	5	4	5	0	4	5	4	0	5	4	4	0	0	0	0			
ÖK2			5	5	5	0		5	_	-		5	5		0	0	0			

20	QUALIFICATIONS PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 PQ															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	5	4	5	0	4	5	4	0	5	4	4	0	0	0	0
ÖK2	4	5	5	5	0	4	5	4	0	4	5	5	0	0	0	0
ÖK3	5	5	0	4	4	4	5	4	4	4	5	5	0	0	0	0
ÖK4	4	4	5	5	4	4	5	4	4	5	4	5	0	0	0	0

Contrib 1 very low ution Level:				2 low		Т	Medi			4 Higl				y High		
	LO: Learning Objectives PQ: Program Qualifications															
ÖK8	5	5	5	5	0	4	5	5	4	5	4	4	0	0	0	0
ÖK7	4	5	5	5	0	4	4	4	0	5	4	4	0	0	0	0
ÖK6	5	5	5	5	4	4	4	4	4	4	4	0	0	0	0	0
ÖK5	4	5	5	5	4	4	5	4	4	5	4	5	0	0	0	0