B	IOKINETICS TECHNIQ	UES (PL	OF WASTEWATER TREATMENT ANTS						
1	Course Title:	TICS TECHNIQUES OF WASTEWATER TREATMENT							
2	Course Code:	CEV624	8						
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:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Doç. Dr.	MELİKE YALILI KILIÇ						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	myalili@uludag.edu.tr 02242942117 Uludağ Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 16059, Nilüfer, Bursa Engineering, 16059 Gorukle/Bursa TURKEY							
17	Website:								
18	Objective of the Course:	Aims of t and reac removal	his lesson are explanation of biological reaction kinetics tors, examination of microorganism structure required for of organic pollution found in wastewater.						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Able to explain the types, structures and properties of microorganism found in activated sludge systems						
		2	Have the knowledge of the biological reaction kinetics, reactor structures and applicability of these to activated sludge system						
		3	Be able to estimate the biomass equations and reactor size in biological treatment systems						
		4							
		5							
		6							
		7							
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		10							
21	Course Content:	-							
		Co	burse Content:						
Week		- 4	Practice						
1		structure							
2	Enzyme criteria								

3	Enz	yme	criteria	а															
4	Toxi	Toxic inhibition																	
5	Тохі	oxic inhibition																	
6	Rea biolo	Reactor types and reaction kinetics in biological treatment																	
7	Rea biolo	ctor t ogica	types a I treat	and re ment	actior	n kineti	cs in												
8	Activ in bi	vated ologi	l sludg cal tre	ge sys eatmer	tems nt	and ma	ass ba	lance											
9	Activ in bi	vated ologi	l sludg cal tre	ge sys eatmer	tems nt	and ma	ass ba	lance											
10	Rep	eatin	g cou	rses a	nd mi	dterm	exam												
11	Dete biolo	ermin ogica	ation I treat	of biol ment s	kinetio syster	constans	ants ir	ו											
12	Dete biolo	ermin ogica	ation I treat	of biol ment s	kinetio syster	consta ns	ants ir	ו											
13	Micr effic	obial iency	cultui /	re for (optim	um trea	atmen	t											
14	Micr effic	obial iency	cultuı /	re for (optim	um trea	atmen	t											
22	Textbooks, References and/or Other Materials:									1-Prof. Dr.KESTİOĞLU, K., Endüstriyel Atıksu Arıtma Tesisi Boyutlandırma Kriterleri, Uludağ Üniversitesi Güçlendirme Vakfı Yayını, 2001. 2-Prof.Dr.KESTİOĞLU, K., Arş.Gör. ŞEN, M., Su ve Atıksu									
Activites								1	Number Duration (ho				hour)	our) Total Work Load (hour)					
Theore	tical								va, 4-N	lG. M	etcalf&	Eddy,	McGrav	<i>∾-</i> Hill∣	Book C	42,00 0,1991.			
Practicals/Labs									C	0					0.00				
Self study and preperation									ľ	6 7				7.00			42.00		
Homew	vorks								5	5)	75.00				
Perja ct	ÆAR	NING		VITIES	5		N	UMBE	WÉ	WÊIGHT						0.00			
Field S	tudie	S							C	0 0.00						0.00			
Midtern	rm exame															7.00			
Others	3								C	0						0.00			
Final E	Tal Exam														14.00				
Total W	Total Work Load									100.00						187.00			
Total w	ork l		30 hr	(00r)	0.000	ine Ant		40	46	00						6.00			
ECTS	Credi	it of tl	he Co	urse											:	5.00			
Contribution of Final Exam to Success Grade								60.	60.00										
Total									100	0.00									
Measur Course	reme	nt an	id Eva	luatio	n Tec	hnique	s Use	d in th	е										
24	EC	TS /	WO	RK L	OAD	TAB	LE												
25				CON	TRIE	BUTIO	N O	F LE/	ARN Quai	ing (Lific		COME NS	S TO I	PROG	GRAM	ME			
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ÖK1		4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0		

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