	PA	RTICL	E DYNAMICS						
1	Course Title:	PARTIC	LE DYNAMICS						
2	Course Code:	MAK620	9						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	2							
6	Semester:	3							
7	ECTS Credits Allocated:	6.00							
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.	ATAKAN AVCI						
15	Course Lecturers:		Atakan Avcı						
16	Contact information of the Course Coordinator:	atakan@ Müh. Bö	uludag.edu.tr / 2242941954/ U.Ü. Müh. Mim. Fak. Mak. lümü BURSA						
17	Website:								
18	Objective of the Course:	behavior the sepa	medium under the influence of various forces observe the of the particles and these particles, due to these forces, ration process to provide information about the theoretical h, the design.						
19									
20	Learning Outcomes:								
		1	knows that the liquid and solid particles, and related concepts						
		2	defines the size of the particle, knows the distribution of particle						
		3	knows the relative motion gives particle forces, and implements						
		4	knows the processes of particle separation and design						
		5	recognizes that the processes of separation systems, knows the problems and analyzes						
		6							
		7							
		8							
		9							
04	Course Content	10							
21	Course Content:	0-	ourse Content:						
Week	Theoretical		Practice						
1	introduction, particle definition and p the concepts	oroperties,							
2	particle distributions, and size defini	tions							
	fluid properties, viscous motion								

4	particle and pa						gravity												
5	impacti	paction and impactors																	
6	isokine cyclone		mpling	centri	fugatio	n and		T											
7	browia	n mot	tion and	l simple	e diffus	ion													
8	particle	diffu	sion, th	ermop	horesis	\$													
9	particle	s cha	arging r	nechar	nisms														
10	electro: electro:				osol kir	netics	,												
11	conder	satio	n and e	vapora	ation pł	nonen	nena												
12	evapor	ation	and gr	owth, e	xtinctic	n													
13	coagula	agulation of particles, viable particles																	
14	explosi	ve ae	erosols																
22	Materia	Textbooks, References and/or Other Materials:								<ol> <li>aerosol science and technology, P.C. Reist, McGraw- Hill, New York, 1993</li> <li>Air pollution control engineering, L.K. Wang, N.C.Pereira, Y-T. Hung, Humana Press, New Jersey, 2004</li> </ol>									
23	Assesn EARNIN		דו\/ודוב	<b>C</b>			UMBE												
		IG AU		.5		F			WEIGHT										
	n Exam					C	)	-	00			_							
Activit	Activites								Numb	er		Dura	ition (	· · · ·	Total Work Load (hour)				
<b>Final F</b>	-hedrexean 1											3.00			42.00				
	Practicals/Labs											0.00			0.00				
Self stu	ontribution of Term (Year) Learning Activities to eff study and preperation access Grade									090				·	72.00				
	neworks											10.00			80.00				
Project	pjects											0.00			0.00				
	eld Studies									0 0.00					0.00				
Measu	surement and Evaluation Techniques Used in the read of											0.00			0.00				
Others										0				0.00					
Final E	Exams									1				3.00					
Total W	otal Work Load												197.00						
Total w	Fotal work load/ 30 hr												6.57						
ECTS (	TS Credit of the Course										6.00								
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	PQ	1 PC	22 PQ	B PQ4	PQ5	PQ6	PQ7	PQ	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	5	4	5	5	4	0	0	0	0	0	0	0	0	0	0	0			
ÖK2	5	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0			
ÖK3	4	4	4	5	4	0	0	0	0	0	0	0	0	0	0	0			
ÖK4	0	4	4	3	4	0	0	0	0	0	0	0	0	0	0	0			

ÖK5	5	4	4	3	4	0	0	0	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	ution			2	2 low			3 Medium			4 High			5 Very High			