	PAR	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:	1								
6	Semester:	1								
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:	Prof.Dr.A	Atakan Avcı							
16	Contact information of the Course Coordinator:		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	Contribution of the Course to Professional Development:									
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								
		10								
21	Course Content:									
107	<del></del>	Co	ourse Content:							
	Theoretical		Practice							
1	introduction, particle definition and proceed the concepts	•								
2	particle distributions, and size definit	ions								
3	fluid properties, viscous motion									

		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
25				CON	TRIE	BUTIO	N OF			IING (			S TO	PROC	GRAM	IME			
ECTS (		t of th														6.00			
Total w															6.57				
Total Work Load														197.00					
Final Exams							1			3.00			3.00						
Others	1								(	)			0.00			0.00			
Measurement and Evaluation Techniques Used in the Course						e	)			0.00			0.00						
Field S									(	0.00						0.00			
Project	S	<del></del>	nai E	AGIII K			laac		$\neg$	0.00			0.00	.00 0.00					
Homew									8	3			10.00	)		80.00			
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Activit	tes						, ,		1	Numb	er		Dura	ation (	(hour)	Total \ Load (			
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TERM L	EAR	NING	ACTI	VITIES			N R	UMBE	WE	EIGHT									
23	Asse	esme	nt																
22	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>												
14	expl	osive	aero	sols															
13	`				es, vi	able pa	rticles	S											
12					•	xtinctio													
11						tion ph		ena											
10	elec	electrostatic controled aerosol kinetics, electrostatic precipitator																	
9	particles charging mechanisms																		
8	parti	cle d	iffusic	on, the	rmopl	noresis													
7	brov	vian r	notior	n and	simple	diffus	ion												
6		kinetic sampling, centrifugation and clones																	
5	_	•		impac	•														
4		article motion under the influence of gravity and particle separation processes																	

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	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
Contrib ution Level:	ution															