MATERIAL FOR ADDITIVE MANUFACTURING								
1	Course Title:	MATERI	AL FOR ADDITIVE MANUFACTURING					
2	Course Code:	MAK5274						
3	Type of Course:	Optional						
4	Level of Course:	Third Cy	cle					
5	Year of Study:	1						
6	Semester:	2						
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:	none						
12	Language:	Turkish						
13	Mode of Delivery:	Face to f	ace					
14	Course Coordinator:	Doç. Dr.	MUSTAFA SAFA YILMAZ					
15	Course Lecturers:	-						
16	Contact information of the Course Coordinator:	0224 294	naz@uludag.edu.tr 2637 n. Fak. Makine Müh. Böl. BURSA					
17	Website:							
18	Objective of the Course:	E: Types of materials required for additive manufacturing processes; production, quality control, optimization, validation etc. Gain knowledge of processes.						
19	Contribution of the Course to Professional Development:	Production and quality control processes of materials used in additive manufacturing systems will be learned.						
20	Learning Outcomes:							
		1 To have knowledge about materials used in ado manufacturing technologies						
		2	Gaining the ability to choose the appropriate material production process for the purpose					
		3	To learn quality control processes in additive manufacturing materials					
		4						
		5						
		6						
		7						
		8						
		9						
		10						
21 Course Content:								
	Course Content:							
	Theoretical		Practice					
1	Introduction to Additive Manufacturin Transformation from rapid prototypin advanced manufacturing	g to						
2	Materials for Additive Manufacturing Polymers: Personal printers							

3						ufactur er prin											
4	Polymers: Industrial polymer printers Materials for Additive Manufacturing: Metals and ceramics: Indirect processes																
5	Materials for Additive Manufacturing: Metals and ceramics: Direct processes																
6				cation acturi		dards fo STM)	or Met	al									
7		Additive Manufacturing of Composite Materials															
8	Biopr	inte	rs														
9	Powd Manu			art cha	ractei	rization	in Ad	ditive									
10	Powd Manu				racter	rization	in Ad	ditive									
11	New	pow	der a	nd Allo	oy de∖	velopm	ent										
12	Proce	ess i	maps	and p	roces	s contr	ol										
13	Micro	stru	cture	and p	orosit	y contr	ol										
14	Stand	lard	izatio	n in po	owder	and ap	oplicat	ions									
22 Activit	Textbooks, References and/or Other Materials:							Toz 2. l Fui (N.	 Toz Metalurjisi ve Parçacıklı malzeme İşlemleri, Türk Toz Metalurjisi Derneği, 2007. Leander F. Pease III and William G. West, (2002), Fundamentals of Powder Metallurgy, MPIF, New Jersey (NJ), USA Number Duration (hour) Total Work 								
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24	I	5/				TAB											
25				CON	TRIB	UTIO	N OF			-			S TO I	PROG	GRAM	ME	
	Р	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0		3	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 ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High				