

Course Details									
Code				Acad	Academic Year			Semester	
MWT308					6				
Title					Α	L	ECTS		
Powder Metallurgy					2		6		
Language	German	German							
Level	Undergraduate	х	Graduate		ſ	Postgra	duate		
Department / Program	Department of Ma	aterial Science	and Technolog	gy (Germa	an)				
Forms of Teaching and Learnin	g Face to Face								
Course Type	Compulsory	Compulsory						x	
Objectives	ceramic powders a get to know three Powder extraction - shaping and com - Solidification by	Powder metallurgy (PM) is a branch of metallurgy involved in the production of metal and ceramic powders and components thereof. Students are basically at least get to know three stages of production:  Powder extraction,  - shaping and compaction,  - Solidification by sintering.							
Content	Powder Production, Mechanical Alloy, Coaxial Pressing; single-sided, double-sided, isostatic pressing, sintering; Vacuum sintering, hot isostatic pressing, liquid phase sintering								
Prerequisites	-								
Coordinator	-								
Lecturer(s)	Asist Prof.Dr. Çağa	Asist Prof.Dr. Çağatay Elibol							
Assistant(s)	-								
Work Placement	-								
Recommended or Required	Reading								
Books / Lecture Notes									
Other Sources	<ul> <li>Klar, E., Fesko, J.W., Powder Metallurgy, ASM Handbook, Vol. 7., Ohio, 1991.</li> <li>Övecoğlu, L, ITU Metallurgie und Werkstofftechnik, Lecture Notes</li> </ul>								
Additional Course Material									
Documents									
Assignments									
Exams									
Course Composition									
Mathematics und Basic Sciences	%								
Engineering	%100							)	



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Engineering Design	n			%			
Social Sciences			%				
Educational Science	ces		%				
Natural Sciences			%				
Health Sciences				%			
Expert Knowledge				%			
Assessment							
Activity			Count	Percentage (%)			
Midterm Exam			1	40			
Quiz							
Assignments							
Attendance							
Recitations							
Projects							
Final Exam			1	60			
	·		Total	100			
ECTS Points and	Work Load						
Activity		Count	Duration	Work Load (Hours)			
Lectures		15	2	30			
Self-Study		7	10	70			
Assignments		4	8	32			
Presentation / Sen Preparation	ninar						
Midterm Exam		1	2	2			
Recitations		15	1	15			
Laboratory		15	2	15			
Projects							
Final Exam		1	2	1			
			Total Work Load	181			
ECTS Points (Total Work Load / Hours) 6							
Learning Outcom	nes						
1 6	and compon		netallurgy involved in the production obasically at least get to know three staidification by sintering.				
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12								
Weekly Conten	t							
1	Metal powd	er characteriza	ation					
2		er production						
3	Mechanical	pressing						
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9								
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11								
12								
13								
14								
15								
Contribution of	f Learning O	utcomes to P	Program Obie	ectives (1-5)				
	P1	P2	P3	P4	P5	P6	P7	P8
1	2	3						
2								
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Contribution Lev	ontribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High							
https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=en&curSunit=207								
Compiled by:		Res. Asst. Burak Evren						
Date of Compilat	tion:	25.04.2022						