

PROPERTIES OF SOLID MATTEIALS I

1	Course Title:	PROPERTIES OF SOLID MATTEIALS I	
2	Course Code:	FZK6304	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
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:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. MÜRŞİDE ŞAFK HACİİSMAİLOĞLU	
15	Course Lecturers:	Dr. Öğr. Üyesi M. Cüneyt HACİİSMAİLOĞLU	
16	Contact information of the Course Coordinator:	Doç. Dr. Mürşide Hacıismaıloğlu msafak@uludag.edu.tr, (0224) 2941697, Fen Edebiyat Fakültesi, Fizik Bölümü 16059 Görükle Kampüsü Bursa	
17	Website:		
18	Objective of the Course:	To study dieltric, Fermi yüzeyleri, superconductivity properties of solid and alloys.	
19	Contribution of the Course to Professional Development:	Learning dielectric,Fermi surfaces, superconductivity properties of solids and alloys. Learning Phase diagrams and their interpretations.	
20	Learning Outcomes:		
		1	Learning band suructure, formation and Fermi surfaces
		2	Learning dielectrical solids and applicaitons
		3	Learning optical and dielectrical properties and relating between them
		4	Learning superconductin properties of solids and applications
		5	Learning alloys and their properties, applications and phase diagrams of alloy solids.
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21	Course Content:		
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Week	Theoretical	Practice	
1	Band theory of solids		
2	Bant formation and structure and properties		
3	Electron behaviour in solids		
4	Fermi surfaces of solids		
5	Fermi surface calculation		

ÖK5	4	4	3	4	5	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							