PR	OPERTIES OF SOLID	MATE	ERIALS I(KATIHALFIZ.A.B.D.IÇIN)						
1	Course Title:	PROPER	RTIES OF SOLID MATERIALS I(KATIHALFIZ.A.B.D.IÇIN)						
2	Course Code:	FZK6303	3						
3	Type of Course:	Compuls	ory						
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							
14	Course Coordinator:	Doç. Dr.	MÜRŞİDE ŞAFAK HACIİSMAİLOĞLU						
15	Course Lecturers:	_	Üyesi M. Cüneyt HACIİSMAİLOĞLU						
16	Contact information of the Course Coordinator:	msafak@	Mürşide HACIİSMAİLOĞLU Duludag.edu.tr, (0224) 2941697, Fen Edebiyat Fakültesi, ümü 16059 Görükle Kampüsü Bursa						
17	Website:								
18	Objective of the Course:	To study structural, dynamic, mehchanical, electrical, optical and magnetic properties of solids							
19	Contribution of the Course to Professional Development:	Learning production, designing of materials used common in Daily- life and investigate their properties. İmproving production and designing the materials with the desired properties.							
20	Learning Outcomes:								
		1	Learning classification of solids according to the physical properties						
		2	Learning structural properties and calculations them						
		3	Learning mechanical properties and relations between mechanical and structural properties.						
		4	Learning thermal properties and their calculations.						
		5	Learning electrical and magnetic properties and their calculations						
		6							
		7							
		8							
		9							
24	Course Content:	10							
21	Course Content.	Co	purse Content:						
Week	Theoretical		Practice						
1	Classifacation of solids according the	eir							
	properties.								
2	Structural properties	ati in a l							
3	Determination and calculation of struproperties.	ctural							

	Dynamical and mechanical properties	26					
5	Vibrational motions in solids, classic						
5	quantum						
6	Relations between structural and me properties.	echanical					
7	Thermal properties.						
8	Thermal capacity models, capacity calculations						
9	Electrical properties						
10	Parameters affecting electrical property	erties					
11	Classical and quantum calculation o electrical properties.	of					
12	Magnetic properties, magnetic mate applicaitons	rials and					
13	Relations between electrical and maproperties	agnetic					
14	Applications of solids according to u	se-area.					
22	Textbooks, References and/or Othe Materials:	r	University 3. J. Crar	imans, l Pres, 0 igle, The	Cambrido e Magne	ge U.K. (1972	of Solids, Edward
23	Assesment						
Activit	tes		Numb	er	Г	Ouration (ho	\
			INGINIS	O1	_	ouration (no	Dur) Total Work Load (hour)
Dwitore		0	0.00	O1		5.00	•
Qwiz ore		0			3	·	Load (hour)
Quio re Practic	etical	0	0.00		3	.00	Load (hour)
Quio re Practic	etical cals/Labs XA) ^M and preperation		0 00		3 0 6	0.00	Load (hour) 42.00 0.00
Practic Finals Home	etical cals/Labs XA) ^M and preperation	1	0 0 0 0 0 7 0 0		3 0 6	3.00 3.00 3.00	Load (hour) 42.00 0.00 84.00
Practic Finals Home	etical cals/Labs Works Station of Term (Year) Learning Activity	1	0 99 0 7990		3 0 6 5	3.00 3.00 3.00 3.00	Load (hour) 42.00 0.00 84.00 50.00
Practice Field S Field S	etical cals/Labs Works Station of Term (Year) Learning Activity	1 ies to	0 99 0 70490 10 30000		3 0 6 5 0	0.00 0.00 0.00 0.00	Load (hour) 42.00 0.00 84.00 50.00 0.00
Practice Field S Field S	etical cals/Labs Withmand preperation works stion of Term (Year) Learning Activity Crade Studies cution of Final Exam to Success Grade	1 ies to	0 99 0 70190 10 30000		3 0 6 5 0 0	3.00 3.00 3.00 3.00 3.00 3.00	Load (hour) 42.00 0.00 84.00 50.00 0.00 0.00
Practice Signals Homev Project Signals	etical cals/Labs Withmand preperation works stion of Term (Year) Learning Activity Crade Studies cution of Final Exam to Success Grade	1 ies to	0 94 0 70440 10 3000 0 7000		3 0 6 5 0 0	0.00 0.00 0.00 0.00 0.00 0.00	Load (hour) 42.00 0.00 84.00 50.00 0.00 0.00 0.00 0.00
Practice Field S Mater Others	etical cals/Labs cals/Labs works setion of Term (Year) Learning Activit calculus Crade Studies cution of Final Exam to Success Grade cution of Final Exam to Success Grade Exament and Evaluation Techniques U Work Load	ies to	0 94 0 70440 10 3000 0 7000		3 0 6 5 0 0	0.00 0.00 0.00 0.00 0.00 0.00	Load (hour) 42.00 0.00 84.00 50.00 0.00 0.00 0.00 0.00
Practice Field S Mater Others	etical cals/Labs Extending a preparation works settion of Term (Year) Learning Activity Studies cutton of Final Exam to Success Grades settion and Evaluation Techniques U	ies to	0 94 0 70440 10 3000 0 7000		3 0 6 5 0 0	0.00 0.00 0.00 0.00 0.00 0.00	Load (hour) 42.00 0.00 84.00 50.00 0.00 0.00 0.00 plied 2.00
Practice Field S Modern Others Measure Total V	etical cals/Labs cals/Labs works setion of Term (Year) Learning Activit calculus Crade Studies cution of Final Exam to Success Grade cution of Final Exam to Success Grade Exament and Evaluation Techniques U Work Load	ies to	0 94 0 70440 10 3000 0 7000		3 0 6 5 0 0	0.00 0.00 0.00 0.00 0.00 0.00	Load (hour) 42.00 0.00 84.00 50.00 0.00 0.00 0.00 0.00 178.00
Practice Field S Modern Others Measure Total V	etical cals/Labs Example and preperation works estion of Term (Year) Learning Activit Studies cution of Final Exam to Success Grad mexams and Evaluation Techniques U Work Load Vork Load Vork load/30 hr Credit of the Course	ies to de Jsed in the	0 99 0 0 7 0 10 3 0 0 0 0 0 0 0 The system	em of re	3 0 6 5 0 0 0 0 1 ative e	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Load (hour) 42.00 0.00 84.00 50.00 0.00 0.00 0.00 0.00 178.00 5.93 6.00

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	3	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	4	4	4	0	0	5	0	0	0	0	0	0	0	0	0
ÖK3	2	4	5	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	3	4	4	0	3	0	0	0	0	0	0	0	0	0	0

ÖK5	3	4	5	0	0	4	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications Contrib 1 very low 2 low 3 Medium 4 High 5 Very High ution Level:																