A DIVE	s s			L	T.C.	OTTV			Document N Publication I	o Eo Date 13	атм – 0001 3.09.2021	
	77	Course Syllabus Form Revision Date - Revision 0										
Code and		Revision No 0										
Name:	FIZ5Z7U ADVANCED SOLID STATE PHYSICS APPLICATIONS											
Unit: G	raduate S	chool of Natu	iral and Applied S	ciences		6 11 6		ama (
Detail:	Period: 2	2023-2024	Status: 0	ptional	Class: 1	Credits: 3	003 E	CTS: 6	Language	Turkisł	1	
]	INSTRUCTO	R				Cou	JRSE AS	SİSTANT			
Title, Name and	d Surnam	e:				Γitle, Name and	d Surname:					
	Phon	e:					Phone:					
Soci	ema al Accoun	11: .t· -				Socia	email:					
Student Day	and Tim	e: -				Student Day	and Time:					
Lessons	Mon	ndav	Tuesday	We	dnesdav	Thursdo	av	Fride	av	Satu	rdav	
Weekly			1 dooddy		uncounty		~		~~	5404	,	
Program:					-							
Renderina	Face-to	-face lesson	s ner week 3	It will be o	done on an	hourly basis						
Place:	YY: F	ace-to-face	sperweek s	it will be t	UE:	-						
Durnose	To condu	uct a detaile	d evamination o	f Solid Stat	o Physics w	which constitut	tos the four	adation (of applied n	hysics		
Turpose.					e r nysics, v		les the loui		n applieu p	mysics.		
Material:	Solid St	tate Physics,	Şakir AYDOGAN	, Solid Stat	te Physics J.	R. HOOK						
Student Been en sibility	Conduct	ma Dogoonak	Defense and After	with a Lastr								
Responsibility :	Conduct	ing Research	i Before and Afte	er the Lecti	ure.							
	Wook	Topic									Mothod	
	1	Sumanaand									Wethou	
	2	Superconductivity The Maissner effect							vv			
	3	Heat connecity							vv			
	4	Thermodynamics of superconducting transitions							YY			
	5	Behavior of solids at high temperatures								YY		
	6	Diyamagnetizma								YY		
Weekly Lesson Plan	7	Paramagnetism								YY		
	8	Ferromagnetizma								YY		
	9	General repetition- Midterm Exam								YY		
	10	Antiferromagnetizma							YY			
	11	Alloys							YY			
	12	Applications of solid state physics in biomedical materials							YY			
	13	Solid Applications of State Physics in the Aircraft Industry								YY		
	14	Application	ns of solid state ph	ysics in eng	ineering						YY	
		Evam	Method							number 1		
Assessment and Evaluation		Ouiz	-							-	70 30	
	Break	Homework										
	Exam	Project								<u> </u>	_	
		110,000										
	General	Face	Į							1	% 5	
	Exam									1	0	
Course	1	Distinguis	h between crysta	line and no	on-crystallin	e materials						
	2	Understands the importance of heat capacity modeling										
Outcomes:	3	Identifies solid materials according to their electrical properties										
	4	Understand the working mechanism in magnetic, superconducting materials										
	5											
Course-Specifi	c Explar	nations:										
UE: Distance E	ducation	; YY: Face-t	o-Face Educatio	n								

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	FIDAT INNEDSTEV	Publication Date	13.09.2021
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