			Т.С.						Document N Publication		атм – 0001 3.09.2021	
			FIRAL UNIVERSITY							Publication Date 1: Revision Date -		
·· 1975 ···	975 Course Syllabus Form Revision							Revision No	0			
Code and	FIZ5700 APPLICATION AREAS OF SUPERCONDUCTIVITY											
Nume:	Graduate School of Natural and Applied Sciences, Graduate School											
		2023-2024		Optional	Class: 1	Credits:	3-0-0-3	ECTS: 6	Language	: Turkisł	ı	
				1					0 0			
INSTRUCTOR COURSE ASSISTANT Title, Name and Surname: Title, Name and Surname:												
Thue, Name and	Phone					l lue, Name	Pho					
	l:					Ema						
Soci	Social Account:				Social Account:							
Student Day	and Tim	e:	Student Day and Time:									
Lessons	Mon	dav	Tuesday Wednesday			Thursday Frid			ay Satur		rdav	
Weekly									, j			
Program:												
Rendering:												
Place:	YY: Dep	Y: Department of Physics Seminar Room UE:										
Purpose:	To gain general knowledge about the application areas of superconductivity.											
Material:	1) H. Weinstock, Applications of Superconductivity, Springer, 2013.											
Student												
Responsibility												
•												
Weekly Lesson Plan		Торіс									Method	
	1	Conductor, Insulator, Semiconductor and Superconductor Overview								YY		
	2	Types of superconductors and terminology used in superconductivity									YY	
	3	Low temperature and High Temperature superconductivity								YY		
	4	Superconductor generators								YY		
	5	Superconductor generators Superconducting magnets									YY	
	7	Superconducting magnetic energy storage (SMES)									YY YY	
	8	MIDTERM EXAM									YY	
	9	MIDTERM EXAM Magnetic Levitation (MAGLEV) systems									YY	
	10	Use of superconductors in wind turbines								YY		
	11	Use of Superconductors in Magnetic Resonance Imaging								YY		
	12	Use of superconductors in particle colliders									YY	
	13	In the transport of energy, the use of superconductor cables									YY	
	14	Cryogenic refrigeration systems for superconductors									YY	
			Method	1						Number	Weight	
Assessment and Evaluation		Exam								1	%50	
	Durals	Quiz								-	-	
	Break Exam	Homework								-	-	
	Laun	Project								-	-	
										-	-	
	General Exam									1	%50	
	1 1	Comprohan	sion of the hea	ica of support	aanduativity							
Course Outcomes:	2	Comprehension of the basics of superconductivity.										
	3	To learn the uses of superconductors in our environment.										
	4											
Course-Enerifi		ations										
Course-Specific Explanations:												

UE: Distance Education; YY: Face-to-Face Education