



Code and Name: FİZ5690 THE NATURE OF SUPERCONDUCTIVITY

Unit: Graduate School of Natural and Applied Sciences, Graduate School

Detail: **Period:** 2023-2024 **Status:** Optional **Class:** 1 **Credits:** 3-0-0-3 **ECTS:** 6 **Language:** Turkish

INSTRUCTOR

Title, Name and Surname:

Phone:

Email:

Social Account:

Student Day and Time:

COURSE ASSISTANT

Title, Name and Surname:

Phone:

Email:

Social Account:

Student Day and Time:

Lessons Weekly Program:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Rendering:

Place: YY: Department of Physics Seminar Room

EU:

Purpose: Superconductivity doğasını anlamak ve uygulama alanları hakkında bilgi edinmek

Material: 1) BC. Rose-Innes , E.H. Rhoderic , Introduction to Superconductivity , Pergamon (1978)

Student Responsibility :

Weekly Lesson Plan	Week	Topic	Method
	1	Süperiletkenliğin tarihsel süreci	YY
	2	Exceed By virtue ilgili temel kavramlar	YY
	3	Electrical and Electrical Materials Magnetic Properties i (Diyamanyethic)	YY
	4	Type I Superconductors	YY
	5	Type II Superconductors	YY
	6	The Meissner Effect and Eddy Akımları	YY
	7	Problem Solutions	YY
	8	MIDTERM EXAM	YY
	9	BCS Theory and Cooper Çifti	YY
	10	Tunneling	YY
	11	Electron pair waves Quantumic Attempt	YY
	12	Josephson's Joint	YY
	13	Superconductivity K Usage A Lans	YY
	14	Problem Solutions	YY

Assessment and Evaluation	Method			Number	Weight
	Break Exam	Exam	YY	1	%50
		Quiz		-	-
		Homework		-	-
		Project		-	-
			-	-	
	General Exam	YY		1	%50

Course Outcomes:	1	Understanding the concept of superconductivity
	2	Understanding the application areas in which superconductivity is used
	3	Comprehension of the existence and use of physics in the majority of technological applications.
	4	
	5	

Course-Specific Explanations:

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