



Code and Name: FIZ 5450 INTRODUCTION TO METAL PHYSICS

Unit: Graduate School of Natural and Applied Sciences

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: The course will be held 4 hours a week with face-to-face methods.

Place: YY: Office- UE: -

Purpose: To provide students with information about materials and physical properties of materials and to create a background for microscopic examinations

Material: 1) Materials Science and Engineering WILLIAM D. CALLISTER, DAVID G. RETHWISCH 2) Fundamentals of Physical Metallurgy JOHN D. VERHOVEN

Student Responsibility:

Weekly Lesson Plan	Week	Topic	Method
	1	Importance of Materials Science and Classification of Materials.	YY
	2	Atomic structure and Interatomic Bonding	YY
	3	Chemical Structures in Solids	YY
	4	Chemical Structures in Solids Katılarda Kusurlar	YY
	5	Defects in Solids	YY
	6	Defects in Solids	YY
	7	Microscopic Examination Methods	YY
	8	MIDTERM EXAM	YY
	9	Metallerin Mekanik Özellikleri	YY
	10	Mechanical Properties of Metals	YY
	11	Dissemination	YY
	12	Dislocation and Plastic Deformation	YY
	13	Strength-enhancing mechanisms in metals	YY
	14	Recovery, Recrystallization, and Grain Growth	YY

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

Course Outcomes:	1	To inform about materials and the structure of materials
	2	To learn about the preparation before microscopic examination of materials and the inspection of materials
	3	To gain the ability to analyze dynamic processes
	4	
	5	

Course-Specific Explanations:

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



T.C.
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Course Syllabus Form

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