



T.C.  
FIRAT UNIVERSITY  
**Course Syllabus Form**

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<b>Code and Name:</b>	<b>FİZ5250 ADVANCED ELECTRONIC MICROSCOPY</b>					
<b>Unit:</b>	Graduate School of Natural and Applied Sciences					
<b>Detail:</b>	<b>Period:</b> 2023-2024	<b>Status:</b> Imperative	<b>Class:</b> 1	<b>Credits:</b> 2 2 0 3	<b>ECTS:</b> 6	<b>Language:</b> 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 3 hours a week with face-to-face methods.

**Place:** YY: UE: -

**Purpose:** To teach them to examine the surface structures and microstructures of substances with Electron Microscopy

**Material:** Electron microscopy Books and the Internet

**Student Responsibility:**

### Weekly Lesson Plan

Week	Topic	Method
1	Introduction to EM-II	YY
2	Image and diffraction techniques	YY
3	Image and diffraction techniques	YY
4	Taking diffraction and image photographs in electron microscopes	YY
5	Detection of X-rays from samples in electron microscopes and examination of samples	YY
6	Detection of X-rays from samples in electron microscopes and examination of samples	YY
7	Microstructure examination	YY
8	Midterm Exam	YY
9	Microstructure examination	YY
10	Crystal Defects and Examination Techniques	YY
11	Crystal Defects and Examination Techniques	YY
12	High separation power TEM	YY
13	Electron microscopy and other techniques	YY
14	Final Exam	YY

### Assessment and Evaluation

Method		Number	Weight
Break Exam	Exam	Face	1 %50
	Quiz	-	-
	Homework	-	-
	Project	-	-
General Exam	Face	1	%50

### Course Outcomes:

1	
2	
3	
4	
5	

### Course-Specific Explanations:

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