



Code and Name: FIZ 5670 LIQUID CRYSTALS

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:
Place:

YY: Face-to-face

UE: -

Purpose: A detailed teaching of the structures, properties and various application areas of liquid crystal substances.

Material: 1) P.G. De Gennes and J. Prost (1995), The physics of liquid crystals, Clarendon Press, Oxford 2) Iam-Choon Khoo (2007), Liquid Crystals Jhon Wiley& Sons, New Jersey

Student Responsibility: Conducting research before and after class

Weekly Lesson Plan

Week	Topic	Method
1	Introduction to liquid crystals	YY
2	Classification and structure of interphases	YY
3	Polymorphism in thermotropic liquid crystals	YY
4	Determination of liquid crystal phases	YY
5	Anisotropic properties of liquid crystals	YY
6	Dielectric properties of liquid crystals	YY
7	Determination of optical properties of liquid crystals	YY
8	MIDTERM EXAM	YY
9	Factors affecting the structural properties of liquid crystals	YY
10	Many Impact of the ethical sphere	YY
11	Liquid crystals under electric and magnetic field	YY
12	Symmetrical liquid crystals	YY
13	Kolesterik and Lyotropic Liquid crystals	YY
14	Liquid crystal preparation methods	YY

Assessment and Evaluation

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

Course Outcomes:

1	Student s IVI Crystal B acquires basic knowledge in the understanding of science.
2	
3	
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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