

INTRODUCTION TO SOLID STATE PHYSICS LABORATORY

1	Course Title:	INTRODUCTION TO SOLID STATE PHYSICS LABORATORY	
2	Course Code:	FZK3056	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
7	ECTS Credits Allocated:	1.00	
8	Theoretical (hour/week):	0.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	2	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Dr. Öğr. Üyesi MUHAMMED CÜNEYT HACIİSMAİLOĞLU	
15	Course Lecturers:	Doç. Dr. Mürşide HACIİSMAİLOĞLU	
16	Contact information of the Course Coordinator:	Dr. Öğr. Üy. M. Cüneyt Hacıismailoğlu mcuneyt@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Performing experimental characterization of solid materials' properties, critically evaluating and interpreting experimental data. Assessing the correspondence between theoretical frameworks and empirical results, including systematic analysis of potential deviations.	
19	Contribution of the Course to Professional Development:	Establishes practical abilities in experimental measurement techniques and error identification. Develops systematic approaches for interpreting experimental data with uncertainty analysis and professional report preparation.	
20	Learning Outcomes:		
		1	Gains experience on the experimental measurements
		2	Learns to evaluate and interpret experimental results.
		3	Learns crystal structures and diffraction phenomena.
		4	Learns semiconductor and optoelectronic devices and their operating principles.
		5	Establishes theoretical framework for essential solid-state physics phenomena.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1		The creation and introduction of the laboratory of experimental groups	

ÖK5	4	3	3	5	0	4	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			