ı	NTRODUCTION TO SO	OLID S	STATE PHYSICS LABORATORY							
1	Course Title:	INTROD	UCTION TO SOLID STATE PHYSICS LABORATORY							
2	Course Code:	FZK3056	6							
3	Type of Course:	Compuls	sory							
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 f	face							
14	Course Coordinator:	Dr. Ögr.	Üyesi MUHAMMED CÜNEYT HACIİSMAİLOĞLU							
15	Course Lecturers:	Doç. Dr.	Mürşide HACIİSMAİLOĞLU							
16	Contact information of the Course Coordinator:		Üy. M. Cüneyt Hacıismailoğlu @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							
		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.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical		Practice							
1			The creation and introduction of the laboratory of experimental groups							

	PQ1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
25							AUQ	LIFIC	ATIO								
	CTS / WOI																
	dit of the Co		- / -											1.00			
	ie ivie	e IVeasurement and evaluation is carried out according the priciples of Bursa Uludan University Associate ar						g to nd									
Total Work Load								33.00							a +c		
Final Exams								1.00 1.00									
Others								0 0.00 0.00									
Midterm ex Success G	n or rerm (kams irade	rear) L	_earn	ng Act	ivities	το	40	200			1.00			2.00			
Field Studi					ام			0			0.00			0.00			
Projects	1				T		О	0	0.00								
Homework					مل			0			0.00			0.00			
Self study	and prepera	tion			U		U	0			0.00			0.00			
Practicals/I					ما		14	14			2.00			28.00			
Theoretica					R			0			0.00			0.00			
Activites								ayınevi, Numb		Istanbi	Duration (hour) Total Work Load (hour)						
	xtbooks, Re terials:	2. 3.	Experimental Booklet M. ALPER, Katıhal Fiziği Ders Notları Bekir Karaoğlu, Katıhal Fiziğine Giriş (Çeviri), Güven Yayınevi, 1996, İstanbul														
14							D€	emonst	ration	Experim	nents						
13								epetitai									
12							На	all Effec	ct								
11							St	rain-Ga	auge T	ransduc	er Cha	racteri	stics				
10							Th	ne powe	er loss	es in Fil	oer opti	cal Ca	bles				
9							Ca	apacita	nce of	a diode							
8							De	emonst	ration	Experin	nents						
7							Th	nermoe	lectrica	al Coup	le						
6							Ma	agnetic	Induc	tion Co	effcient.						
5								otoelec									
4								ffractio					- ,				
3							_	Drawing Geometry of two and three dimensional Crystals									
2							ac	Preliminary experiments to give information about, Error accounts presentation and disclosure of examples, Figure									

25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	4	3	5	0	3	0	0	0	0	0	0	0	0	0	0
ÖK2	5	4	4	5	0	4	0	0	0	0	4	2	0	0	0	0
ÖK3	4	3	3	5	0	4	0	0	0	0	0	0	0	0	0	0
ÖK4	4	3	3	5	0	4	0	0	0	0	0	0	0	0	0	0

ÖK5	4	3	3	5	0	4	0	0	0	0	0	0	0	0	0	0
Contrib ution Level:	ution															