I	NTRODUCTION TO SO		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 Cyc	le						
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: 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.						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
	Theoretical		Practice						
1			The creation and introduction of the laboratory of experimental groups						

2									ac	Preliminary experiments to give information about, Error accounts presentation and disclosure of examples, Figure Drawing												
3											Geometry of two and three dimensional Crystals											
4											Diffraction in Crystals											
5																						
6											Magnetic Induction Coeffcient.											
7												al Coup										
8											Demonstration Experiments											
9											Capacitance of a diode											
10											The power losses in Fiber optical Cables											
11											auge T	ransdu	cer Cha	racter	istics							
12											ct											
13										epetita												
14										Demonstration Experiments												
22 Activit	22 Textbooks, References and/or Other Materials: Activites									M. AL Bekir	PER, k Karaoğ <u>, 1996</u> ,		⁻iziği De hal Fizi ul	ğine G	iriş (Çe	eviri), Güven Total Work Load (hour)						
Theore	tiool						IR	2	+	0			0.00	```								
Theore		~														0.00						
Practica										14 00			2.00			28.00						
Self stu		d pr	epera	tion						<u> </u>			0.00			0.00						
	Homeworks									0			0.00			0.00						
- · ·										0			0.00			0.00						
	eld Studies									0 200			1.00			2.00						
Others	tribution of Term (Year) Learning Activities to term exams cess Grade									2			0.00			0.00						
										1			1.00			1.00						
Total		nad													33.00							
	al Work Load										ment a	ind eva	luation i	is carri			g to					
	asurement and Evaluation Techniques Used in the burse CTS Credit of the Course									e oricir	oles of	Bursa l	Iludad I	Iniver	sitv Ass	<u>l.00</u>	nd					
	1				OAD	TAB	LE															
25				CON	TRIE	BUTIC	N O				OUT(CATIC		S TO I	PROC	GRAM	ME						
	P	Q1	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	3 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	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:					2 low			3 Medium			4 High			5 Very High			