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	17	FIRAT UNIVERSITY Publication Date 13.09. Revision Date -					13.09.2021				
. 1975		Course Syllabus Form Revision No 0									
Code and F	İZ511(	) INDUSTRIAL X-RAYS									
Unit: G	raduate S	chool of Natural and Applied Sciences									
Detail:	Period: 2	2023-2024	Status: Opti	onal Class: 1	Credits: 2-2-0-3	ECTS: 6 L	anguage: Turkis	sh			
Title Name and	Surnam	INSTRUCTO	R		Title Name and Surnay	COURSE ASSIS	STANT				
The, Name and	Phone	e. e:			Pho	ne:					
	Emai	il:		Em	ail:						
Social Account:					Social Accou	int:					
Student Day	and Tim	e:			Student Day and Ti	me:					
Lessons	Mon	day	Tuesday Wednesday		Thursday Friday		Sat	ırday			
Weekly			2	, v	5	2					
Program:											
Renderina:	The cou	cse will be conducted face-to-face for 4 hours per week.									
Place: YY: Faculty of Science, Department of Physics UE:											
Dumogo	Draviding Craduate Students with a Fundemental Deslamound in V. Dava and Calid Clate Dission										
Purpose:	Providi	roviding Graduate Students with a Fundamental Background in X-Rays and Solid-State Physics									
Material:	The cou	urse will be t	aught using books	and lecture notes.							
Student											
Responsibility	Students	are require	d to attend at least	50% of the classes	and submit assignme	ents on time.					
1											
	Week	Topic						Method			
	1	Introduction of the course, Introduction of the weekly course topics, Purpose of the course						YY			
	2	General description and classification of X-rays						YY			
	3	To give information about experimental methods						YY			
	4	Bragg's law and the making of proof						YY			
	5	Types of atomic bounding						YY			
Weekly Lesson	6	Types of Bravais Lattices						YY			
Plan	7	Types of defects in the structure									
	8	Midterm Exam									
	9	Photoelectric phenomenon									
	10	Solid-state phase transitions									
	11	Fermi Dirac and Bose Einstein models									
	12	Explanation of similarities and differences between reflection, diffraction and Bragg's law									
	13	Presentation and evaluation based on literature review									
	14	General repetition and assessment of achievement						YY			
Assessment and Evaluation		Enom	Method				NUMDe				
		Exam	It will not he done					% 50			
	Break Exam	Quiz	Activition will be	riven before and after	the midtorm even		-				
		Drojoct	Activities will be a		the muter m exam.		۷				
		FIOJECI	It will not be issued	l				-			
	General	Face to Face						% 5			
	Exam	1 400 00 1 400	1					0			
	1	Konu ile ilgili genel bilgive sahip olmak.									
	2	Learning the Course Content, Related Formulas, Equations, and Proofs.									
Course	3	Understan	ding the Applicabilit	v of Acquired Knowle	edge in Scientific Rese	arch.					
Outcomes:	4	Understanding the Applicability and Usability of the Course in Physics and Other Scientific Disciplines									
	5										
Course-Specifi	c Explan	ations:									
UE: Distance E	ducation	; YY: Face-to	o-Face Education								
		,									

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