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	-7-¥			Cours	e Svllah	Svilabus Form				te -				
Code and				cours	, og nab	usionin			Revision No	0				
Name:	FIZ5720 BASIC SCATTERING THEORY													
Unit: O	raduate S	chool of Natu	ral and Applie	ed Sciences					_					
Detail:	Period:	2023-2024	Status:	Optional	Class: 1	Credits: 3	-0-0-3	ECTS: 6	Language	: Turkisł	1			
]	INSTRUCTO	R				С	OURSE AS	SİSTANT					
Title, Name an	d Surnam	e: -				Γitle, Name an	d Surnam	e:						
	Phon Emai	e: - il· -					Phon Ema	e:						
Soci	al Accoun	it: -				Soc	ial Accour	it:						
Student Day	y and Tim	e: -				Student Da	y and Tim	e:						
Lessons	Mon	nday	Tuesday	Wed	nesday	Thursa	lay	Fride	ıy	Satu	rday			
Weekly														
Program:					-									
Rendering:	Face-to	-face lessons	s per week	3 It will be do	one on an	hourly basis.								
Place:	YY: - UE: -													
Purpose:	To be able to analyze scattering reactions between atoms and molecules													
-	V Magnasco Methods of Molecular Quantum Mechanics 2000; P. D. Levino, Molecular Peaction Dynamics, 2005; D.													
Material:	Bohm, Quantum Theory, Prentice -Hall													
Student														
Responsibility	Preparat	Preparation before and after class												
1														
	Week	Topic									Method			
Weekly Lesson Plan	1	Classical scattering theory,							YY					
	2	Classical and Quantum Mechanical Impact Sections							YY					
	3	Hamilton's Equations and the Classical Trajectory Method								YY				
	4	Characteristics of orbits,								YY				
	5	Classical and Quantum Mechanical Structure of Total and Differential Impact Cross-Sections									YY			
	6	Reagent scattering,								YY				
	/	Inelastic Scattering								YY				
	9	MIDTERM EXAM								VV				
	10	In Collision Theory Quantum Mechanic Cell Models									vy			
	11	Thermodynamic and Statistical Properties of Scattering								YY				
	12	Unitarity of the S Matrix							YY					
	13	T Matrix and U Matrix								YY				
	14	Partial Waves									YY			
			Method							Number	Weight			
		Exam	Face							1	% 50			
Assessment and Evaluation	Break	Quiz	-							-				
	Exam	Homework	-											
		Project	-							-	-			
	General	Face									% 5			
	Exam	i ucc								1	0			
	1	Develop knowledge of topics related to basic scattering theory at an expert level												
Course	2	Critically evaluate the knowledge of basic scattering theory,												
	3	Will be able to comprehend the relationship of basic scattering theory with other subjects of physics and its impact on them.									em.			
Outcomes:	4													
	5													
Course-Specifi	ic Explar	nations:												
UE: Distance E	ducation	; YY: Face-to	o-Face Educa	ation										

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	FIDAT INNEDSTEV	Publication Date	13.09.2021
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