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	7			Cours	e Svllabi	is Form		Revision Dat	ie -			
Code and												
Name:												
Detail:	raduate S	chool of Natu 2023-2024	status:	0 Sciences	Class: 1	Credits: 3003	ECTS: 6	Language	Turkisł	ı		
	criour -		Statusi	optional				Lunguage	T di hior			
Title Name and	Surnam		R			Fitle Name and Sur	COURSE AS	SSISTANT				
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Lessons	Mon	day	Tuesday	Wed	nesday	Thursday	Frid	ay	Satu	rday		
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Renaering: Place:	YY: -	Image: International and the second secon										
Dumocoi	Tohow	o have knowledge about electronic structures for molecular systems										
Purpose:	To nave	I O nave knowledge about electronic structures for molecular systems										
Material:	Prof. Dr. Sevim Akyüz Ders notları, P.W. Atkins, Physical Chemistry,1998; M. Karplus and R. N. Porter, Atoms and Molecules .1970											
Student		·- , · -										
Responsibility	Prepara	tion before a	and after class	5								
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	Week	Торіс								Method		
	1	Historical	Development o	of Molecular Or	bital Theor	У				YY		
	2	Innovative Molecular Orbital Models							YY			
Weekly Lesson Plan	3	Introduction of Basic Concepts such as Atomic, Molecular and Hybridization								YY		
	4 F	Sigma(σ) and Pi(π) Urbitals, Linear Combination of Molecular Urbitals								YY		
	6	Molecular Orbital Theory and Reactivity								VV		
	7	Effect of Molecular Stability on Electron Distribution								YY		
	8	Molecular Orbital Theory and Chemical Bonding										
	9	MIDTERM EXAM								YY		
	10	Molecular Geometry Prediction with Molecular Orbital Theory										
	11	Electron Filling Rules							YY			
	12	Molecular Orbital Analysis of Density Functions							YY			
	13	Explanation of Chemical Bonds with Density Functions								YY		
	14	Electron D	istribution in Mathe	Aetal Complexe	2S				Jumbon	YY		
Assessment and Evaluation		Fyam	Face						1	% 50		
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	Break	Homework	_									
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	General	Face							1	% 5		
	Exam									0		
	1	Have knowledge about molecular electrons and molecular bonds.										
Course Outcomes:	2	The electronic layouts of diatomic and polyatomic molecules have information about their energy levels.										
	3	Learns the electronic transitions of molecules										
	5	Learns molecular orbital identification.										
Course-Specifi	c Explan	ations:				1 51(015.						
UE: Distance E	ducation	; YY: Face-to	o-Face Educa	tion								

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