MOLECULAR SYMMETRYAND APPLICATIONS								
1	Course Title:	MOLECULAR SYMMETRYAND APPLICATIONS						
2	Course Code:	KIM6027	,					
3	Type of Course:	Optional						
4	Level of Course:	Third Cy	cle					
5	Year of Study:	1						
6	Semester:	1						
7	ECTS Credits Allocated:	6.00						
8	Theoretical (hour/week):	3.00						
9	Practice (hour/week):	0.00						
10	Laboratory (hour/week):	0						
11	Prerequisites:	None						
12	Language:	Turkish						
13	Mode of Delivery:	Face to f	ace					
14	Course Coordinator:	Prof. Dr.	RAHMIYE AYDIN					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	BURSA rahmiye	Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü, 16059, @uludag.edu.tr 24) 2941729					
17	Website:							
18	Objective of the Course:	To teach the subject of molecular symmetry and it is to apply on the bond theory and spectroscopy.						
19	Contribution of the Course to Professional Development:	It provides theoretical and practical knowledge in the field of molecular symmetry.						
20	Learning Outcomes:							
		1	Determines the symmetry elements of the compounds and the point groups.					
		2	Comments the character tables.					
		3	Applies the symmetry on the bond theory and spectroscopy.					
		4						
		5						
		6						
		7						
		8						
		9						
		10						
21								
) A .	T. C. I	Co	purse Content:					
	Theoretical		Practice					
1	Symmetry Operations and Symmetry Elements							
2	Point Groups and Introduction to Gro Theory							
3	Symmetry Representations and Cha Tables	racter						

4 N	/latrixes																
5 E	Equal-energy Impressions																
6	Chemical Bond Applications																
7	Chemical Bond Applications																
8 1	Molecular Movements																
9 N	Molecular Movements																
	The repetition of the previous course and Midterm																
11 E	Electronic States and Selection Rules																
12	Electronic States and Selection Rules																
	The Term Level Diagrams of Complexes and Ligand Field Transitions.						k										
	The Term Level Diagrams of Complexes and Ligand Field Transitions.						d										
	Textbooks, References and/or Other Materials:						Öl 2. Ya 3. La 4.	1. Kimyasal Yaklaşımla Simetri Ve Grup Teoriye Giriş, H. Ölmez ve H. İçbudak, Mkm yayıncılık, 2012. 2. Moleküler Simetri, C. Kaya ve D. Karabaş, Palme Yayıncılık, 2010. 3. Inorganic Chemistry, D.F. Shriver, P.W. Atkins, C.H. Langford, Oxford University Press, 1994. 4. İnorganik Kimya, G. L. Miessler, and D. A. Tarr, Çeviri Editörleri: N. Karacan ve P. Gürkan, Palme Yayıncılık, 2002.									
Activite	Activites							Number			Dura	Duration (hour)			Total Work Load (hour)		
17heterenic	Theterence 1						35	35140			3.00			42.00			
Practical	racticals/Labs								0			0.00			0.00		
deme:	ensulth function 1							5.0	5.00			2.00			28.00		
Homewo	omeworks							į	2			10.00			20.00		
P pot∮elcts								10	1000.00			0.00			0.00		
	ld Studies							(0			0.00				0.00	
Midterm	cess Grade erm exams							1			40.00			40.00			
Others								0						0.00			
	Exams					10	100.00			50.00			50.00				
	al Work Load													220.00			
04	al work load/ 30 hr						_							6.00			
ECTS Cr	edit of	the Co	urse												6.00		
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	5	2	4	4	3	4	1	4	2	4	0	0	0	0	0	0	
ÖK2	5	2	4	4	3	4	1	4	2	4	0	0	0	0	0	0	
ÖK3	5	2	4	4	3	4	1	4	2	4	0	0	0	0	0	0	
			LO: L	.earr	ning C	bjec	tive	s F	PQ: P	rogra	m Qu	alifica	tions	•			

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					