	BORON CHEMISTRY								
1	Course Title:	BORON	N CHEMISTRY						
2	Course Code:	KIM6029	)						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	2							
6	Semester:	3							
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:	yok							
16	Contact information of the Course Coordinator:	- Uludağ Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü, 16059, BURSA rahmiye@uludag.edu.tr Tel: 0 (224) 2941729							
17	Website:								
18	Objective of the Course:	To teach chemical and physical properties and application areas of boron compounds							
19	Contribution of the Course to Professional Development:	It provides theoretical and practical knowledge in the field of boron chemistry.							
20	Learning Outcomes:								
		1	Recognizes boron compounds.						
		2	Learns chemical and physical properties of boron compounds						
		3	Learns application areas of boron compounds.						
		4							
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
	Course Content:								
Week	Theoretical		Practice						
1	Introduction to the Chemistry of Borc Physical and Chemical Properties of Element	on- Boron							
2	Boron Minerals, Industrial Importanc Boron and Uses, Boron Mining in the and Turkey.	e of e World							
3	Boron Compounds-Borates: Inorgan Borates, Organic Borates	ic							

•	Boron ha dihalide,	alides: Boror	Boron trihali	i mon ides	onalide	s, во	ron									
5	Classification of borone, Bonding in Boranes and Topology,						\$									
6	Synthesis and Reactions of Boranes.															
7	Borane anions, Metalloboranes															
8	Carboranes, Structure and Synthesis of Carboranes.															
9	The repetition of the previous course and Midterm															
10	Carborane Super Acids															
11	Metallocarboranes and Synthesis															
12	The other Boron Compounds: boron carbide, boron nitride, Borazines, borophosphate															
13	Organo	Boron	Comp	ounds	S											
14	Boranes as Ligands and Boron Complexes.															
22	Textbooks, References and/or Other Materials:						1. La A. 2. Ec 20	<ol> <li>Anorganik Kimya, D.F. Shriver, P.W. Atkins, C.H. Langford, (Çeviri Editörleri: Özkar, S., Çetinkaya, B., Gül, A., Gök, Y.) Bilim Yayincilik-Ankara, 2003.</li> <li>İnorganik Kimya, G. L. Miessler, and D. A. Tarr, Çeviri Editörleri: N. Karacan ve P. Gürkan, Palme Yayıncılık, 2002.</li> </ol>								
23	Assesme	ent														
Activites							Number			Duration (hour)		hour)	Total Work Load (hour)			
Qhezore	tical					0		0.0	14			3.00			42.00	
Practica	als/Labs								0		0.00			0.00		
<b>Sielás</b> Eu	SielásEudamand preperation 1							60	60140		2.00			28.00		
Homew	vorks							1	2		10.00			20.00		
emierith	Boojetitisation of Term (Year) Learning Activities to								40000			0.00			0.00	
e sajual	Field Studies								0			0.00			0.00	
Field S	tudies							1	0			0.00			0.00	
Field S	tudies	inal E	xam to	Suco	cess G	rade		60	0 400			0.00 40.00			0.00 40.00	
Field S Manuella Others	tudies WtexamfsF	inal E	xam to	Suco	cess G	rade		60	0 400 0			0.00 40.00 0.00			0.00 40.00 0.00	
Field S MRMEIN Others	tudies WeinenfsF Kennentar	inal E	xam to	o Suco n Tecl	cess G hnique	rade s Use	d in th	60 e W	0 h00 0 flitten e	xams a	and pres	0.00 40.00 0.00	n		0.00 40.00 0.00 50.00	
Field S Methers Others Measter Total W	tudies Netexan As Kannent ar /ork Load	final E nd Eva	xam to	n Tecl	cess G hnique	rade s Use	d in th	60 e W	0 h00 0 flitten e	xams a	and pres	0.00 40.00 0.00	n		0.00 40.00 0.00 50.00 220.00	
Field S MRM&ih Others Measter Total W	tudies NUEXAMSF XEMMENT ar /ork Load	nd Eva	iluation	n Tecl	hnique	rade s Use	d in th	60 e W	0 h00 0 fitten e	xams a	and pres	0.00 40.00 0.00	n		0.00 40.00 0.00 50.00 220.00 6.00	
Field S MRINE Others Measter Total W Total W ECTS C	tudies	inal E nd Eva 30 m he Co	Iuation	n Tecl	hnique	rade s Use	d in th	60 e W	0 h00 0 fitten e	xams a	and pres	0.00 40.00 0.00	'n		0.00 40.00 0.00 50.00 220.00 6.00 6.00	
Field S MRM&M Others Measter Total W Total W ECTS ( 25	tudies Netexands Kennent ar /ork Load Credit of t	inal E nd Eva 30 hf	urse	n Tecl	hnique TAB	s User	d in th		0 h00 fitten e liNG 0 LIFIC	xams a	and pres	0.00 40.00 0.00 579.292	n PROC	GRAM	0.00 40.00 50.00 220.00 6.00 ME	
Field S MRUKik Others Measter Total W ECTS 0 25	tudies	inal E ad Eva 30 m he Co	urse CON	o Suco n Tecl OAD TRIE	hnique TAB BUTIO	s User	d in th	e W ARN QUA	0 h00 fitten e ling ( LIFIC	xams a OUTC ATIO PQ1 0	and pres COMES NS PQ11	0.00 40.00 0.00 570 AR	PQ1	GRAM	0.00 40.00 50.00 220.00 6.00 6.00 ME PQ15	PQ16
Field S MRINEIA Others Meastar Total W ECTS C 25 ÖK1	tudies	inal E ad Eva 30 m he Co	xam to luation <b>K L</b> urse <b>CON</b> <b>PQ3</b> 4	o Suco n Tecl OAD TRIB PQ4	hnique TAB BUTIO PQ5 4	rade s User LE N OI PQ6 3	d in th F LE/ G PQ7		0 h00 0 fitten e iING ( LIFIC PQ9 4	xams a OUTC ATIO PQ1 0 4	and pres COMES NS PQ11 0	0.00 40.00 0.00 579.292 5 TO F PQ12 0	on PROG PQ1 3 0	<b>FQ14</b> 0	0.00 40.00 50.00 220.00 6.00 6.00 ME PQ15 0	<b>PQ16</b> 0
Field S         MRM&IA         Others         Men&IA         Men <ia< td="">         Men<ia< td="">         Men&lt;</ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<></ia<>	tudies	inal E ad Eva 30 fr he Co PQ2 1	xam to luation <b>K L</b> urse <b>CON</b> <b>PQ3</b> 4	o Suco n Tecl OAD TRIE PQ4 3 3	hnique TAB BUTIO PQ5 4	s User LE N OI PQ6 3 3	d in th F LE/ G PQ7 1 1	60 e W ARN QUA PQ8 4	0 h00 0 fitten e JING ( LIFIC 3 PQ9 4 4	xams a OUTC ATIO PQ1 0 4	and pres COMES NS PQ11 0 0	0.00 40.00 0.00 579.292 5 TO F PQ12 0	PQ1 3 0	<b>PQ14</b> 0	0.00 40.00 50.00 220.00 6.00 ME PQ15 0 0	<b>PQ16</b> 0
ÖK1 ÖK3	tudies	inal E ad Eva 30 M he Co PQ2 1 1	xam to luation <b>K L</b> urse <b>CON</b> <b>PQ3</b> 4 4 4	o Suco DAD DAD TRIB PQ4 3 3 3	hnique TAB BUTIO PQ5 4 4	rade s User N OI PQ6 3 3 3	d in th F LE/ G PQ7 1 1 1	60 e W ARN QUA PQ8 4 4	0 h00 0 fitten e <b>NING</b> <b>LIFIC</b> <b>PQ9</b> 4 4 4	xams a OUTC ATIO PQ1 0 4 4	and pres COMES NS PQ11 0 0	0.00 40.00 0.00 5792492 5 TO F PQ12 0 0	on PROG PQ1 3 0 0	<b>PQ14</b> 0 0	0.00 40.00 50.00 220.00 6.00 6.00 <b>ME</b> 0 0	<b>PQ16</b> 0 0

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