METAL CHEMISTRY

1	Course Title:	METAL CHEMISTRY
2	Course Code:	KIM3013
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	There is no course prerequisite.
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. DUYGU İNCİ ÖZBAĞCI
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	dyginci@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Teaching and comprehend chemistry of the metal
19	Contribution of the Course to Professional Development:	make use of theoretical and practical knowledge acquired in the field of metal chemistry.
20	Learning Outcomes:	

	1	The s-block metals will be recognized
	2	The p-block metals will be recognized
	3	The d-block metals will be recognized
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21	Course Content:
	Course Content:

Week	Theoretical	Practice
1	General properties and classification of metals	
2	The s-block metals; occurrence and isolation, redox reactions	
3	The s-block metals; binary compounds	
4	The s-block metals; complex formation	
5	The s-block metals; metal-rich oxides, electrides, and alkalides	

6	The d- block metals; occurrence and isolation	
7	The d- block metals; high oxidation states, intermediate oxidation states	
8	The d- block metals; metal-metal bonded d-metal compounds, noble character	
9	Midterm	
10	The d- block metals; metal sülfides and sülfido complexes	
11	The elements of group 12; occurrence and isolation, redox reactions	
12	The elements of group 12; coordination chemistry	
13	f- block metals; occurrence, isolation and applications	
14	f- block metals; lanthanides, actinides	

22	Textbooks, References and/or Other Materials:	1) Inorganic Chemistry;. D.F. Shriver, P. W. Atkins, third ed., Oxford un. Press(1999) - Anorganik Kimya; Çeviri editörü: S. Özkar, Bilim Yayıncılık, Ankara, 2003 2) Chemistry of the Elements; N.N. Greenwood and Earnshaw, second edition, Elsevier Science Ltd. 1997. 3) Inorganic Chemistry; G.L.Miesster, D.A.Tarr, Prentice-Hall, Inc. 1999 - İnorganik Kimya; Çeviri editörleri: N. Karacan, P. Gürkan, Palme Yayıncılık, Ankara, 2002
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Written exams, multlple-choice tests and presentation

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	40.00	40.00
Others	0	0.00	0.00
Final Exams	1	40.00	40.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	5	3	3	3	1	3	1	1	1	2	2	2	0	0	0
ÖK2	5	5	3	3	3	1	3	1	1	1	2	2	2	0	0	0
ÖK3	5	5	3	3	3	1	3	1	1	1	2	2	2	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				