

INORGANIC CHESTRY II

1	Course Title:	INORGANIC CHESTRY II	
2	Course Code:	KIM2008	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	4.00	
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:	Prof. Dr. RAHMIYE AYDIN	
15	Course Lecturers:	Anorganik Kimya Anabilim Dalı Öğretim Üyeleri	
16	Contact information of the Course Coordinator:	rahmiye@uludag.edu.tr 0224 2941729	
17	Website:		
18	Objective of the Course:	Detailed topics in Inorganic Chemistry and buildings, and to allow the skill to use the knowledge gained	
19	Contribution of the Course to Professional Development:	make use of theoretical and practical knowledge acquired in the field of Inorganic chemistry.	
20	Learning Outcomes:		
		1	Coordination compounds,
		2	Acids, bases and solvents,
		3	Structure of solids,
		4	Learn intermolecular interactions.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Coordination Compounds - Transition metals, Ligands and Nomenclature of coordination compounds		
2	Coordination Compounds - Coordination number and geometry		
3	Coordination Compounds - Isomerism		
4	Bonding in Coordination Compounds - Valence Bond Theory		

5	Bonding in Coordination Compounds - Crystal Field Theory	
6	Bonding in Coordination Compounds - Crystal Field Theory	
7	Bonding in Coordination Compounds - Jahn-Teller Effect	
8	Acid and Base- Definitions of Acid and Base, Solvent System	
9	Acids and Bases - Acids and bases in the gas phase, hardness and softness, Acid and base applications	
10	Solids - ionic bonding and lattice energy	
11	Solids – Crystal structures and types	
12	Solids – Metallic bonding	
13	Intermolecular interactions - Chemical bonds and other interactions	
14	Intermolecular interactions- Hydrogen bonding and effects of intermolecular interactions	
22	Textbooks, References and/or Other Materials:	<p>1. Inorganic Chemistry, N.K.Tunalı ve S. Özkar, Gazi Kitabevi, 2011.</p> <p>2. Inorganic Chemistry, C. Kaya, Cilt I ve Cilt II, Palme Yayıncılık, 2011.</p> <p>3. Inorganic Chemistry, D.F. Shriver, P.W. Atkins, C.H. Langford, (Çeviri Editörleri: S. Özkar, B. Çetinkaya, A. Gül, Y. Gök) Bilim Yayıncılık, 2003.</p> <p>4. Inorganic Chemistry, G. L. Miessler, and D. A. Tarr, Çeviri Editörleri: N. Karacan ve P. Gürkan, Palme Yayıncılık, 2002.</p> <p>5. Basic Concepts of Inorganic Chemistry, H. Ölmez ve V.T. Yılmaz, MKM Yayıncılık, 4. Baskı, 2008</p>
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 and multiple-choice tests
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	4.00	56.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	30.00	30.00
Total Work Load			168.00
Total work load/ 30 hr			4.93
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	5	4	4	3	2	1	1	1	1	1	2	0	0	0
ÖK2	5	5	5	4	4	3	2	1	1	1	1	1	2	0	0	0
ÖK3	5	5	5	4	4	3	2	1	1	1	1	1	2	0	0	0
ÖK4	5	5	5	4	4	3	2	1	1	1	1	1	2	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			