SELECTED TOPICS IN COORDINATION CHEMISTRY

1	Course Title:	SELECTED TOPICS IN COORDINATION CHEMISTRY	
2	Course Code:	KIM5014	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	2	
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:	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:	-	
16	Contact information of the Course Coordinator:	rahmiye@uludag.edu.tr 0224 2941729	
17	Website:		
18	Objective of the Course:	Forward to give information about the coordination chemistry of coordination compounds and introduce.	
19	Contribution of the Course to Professional Development:	make use of theoretical and practical knowledge acquired in the field of coordination chemistry.	
20	Learning Outcomes:		
		1	Will have advanced knowledge on coordination compounds.
		2	Name the coordination compounds.
		3	Explain the structures of coordination compounds.
		4	Interpret magnetic properties of coordination compound.
		5	
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Naming of Coordination compounds	
2	Isomerism in coordination compounds	
3	Effective atomic number and 18 electron rule of coordination compounds	
4	Valence bond theory of coordination compounds	

5	Valence-bond theory of coordination compounds	
6	Crystal field theory of coordination compounds	
7	Crystal field theory of coordination compounds	
8	Crystal field theory of coordination compounds	
9	Repetition of previous lessons and midterm	
10	Ligand field theory of coordination compounds	
11	Ligand field theory of coordination compounds	
12	Magnetic Properties of Coordination Compounds	
13	Magnetic Properties of Coordination Compounds	
14	Magnetic Properties of Coordination Compounds	
22	Textbooks, References and/or Other Materials:	[1] Coordination Chemistry Volume I, A.E. Martell, [2] Coordination Chemistry Volume II, A.E. Martell [3] Advanced Inorganic Chemistry, F.A. Cotton, G. Wilkinson, [4] Inorganic Chemistry, D.F. Shriver, P.W. Atkins, [5] Inorganic Chemistry: Principles of Structure and Reactivity, J.E. Huheey, E.A. Keiter, R.L. Keiter

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	3.00	42.00
Homeworks	14	6.00	84.00
Home work-project	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	4.00	4.00
Others	0	0.00	0.00
Final Exams	1	5.00	5.00
Total Work Load			181.00
Total work load/ 30 hr			5.90
ECTS Credit of the Course			6.00

23	Assesment		
TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**	
Midterm Exam	1	50	
Homework	0	0	
Projects	0	0	
Midterm exams	2	100	
Others			
Success Grade			
Total		100.00	

Course

24	**ECTS / WORK LOAD TABLE**

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	1	1	2	3	3	4	4	4	4	4	0	0	0	0	0	0
ÖK2	1	1	2	3	3	4	4	4	4	4	0	0	0	0	0	0
ÖK3	1	1	2	3	3	4	4	4	4	4	0	0	0	0	0	0

ÖK4	1	1	2	3	3	4	4	4	4	4	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications					
Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**