

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:	Second 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. Veysel Turan Yılmaz	
15	Course Lecturers:	Prof. Dr. Veysel T. YILMAZ	
16	Contact information of the Course Coordinator:	vtyilmaz@uludag.edu.tr 02242941749	
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.
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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, I.E. Huheey, E.A. Keiter, R.L. Keiter
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Activities			Number	Duration (hour)	Total Work Load (hour)
23 Assessment Theoretical			14	3.00	42.00
TERM LEARNING ACTIVITIES					
Practicals/Labs			0	0.00	0.00
Self study and preparation	1	50	140	3.00	42.00
Homeworks			14	6.00	84.00
Project	0	0	00	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams	2	100	00	4.00	4.00
Others			0	0.00	0.00
Success Grade Final Exams		1		5.00	5.00
Total Work Load					181.00
Total work load/ 30 hr			100.00		5.90
ECTS Credit of the Course					6.00
Course					

24	ECTS / WORK LOAD TABLE
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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																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			