	ADVANCED C	OORE	DINATION CHEMISTRY						
1	Course Title:	ADVANO	CED COORDINATION CHEMISTRY						
2	Course Code:	KIM6047							
3	Type of Course:	Optional							
4	Level of Course:	Third Cycle							
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:	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:	Maximize coordination chemistry knowledge of students and advanced topics related to the coordination chemistry are given. Recognition of the aims of coordination compounds.							
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	Explain the structures of coordination compounds.						
		3	Interpret spectroscopic properties of coordination compounds.						
		4	Explain applications of coordination compounds.						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
101	The amount of the state of the	Со	purse Content:						
	Theoretical		Practice						
1	Bonding in coordination chemistry								
2	Valence-bond theory of coordination compounds								
3	Crystal field theory of coordination compounds								

4	Ligand field theory of coordination compounds								
5	Spectroscopik properties of coording compounds	nation							
6	Electronic properties of coordinatio compounds	n							
7	The Orgel diagram								
8	Tanabe-Sugona diagrams								
9	Repetition of previous lessons and	midterm							
10	Reactions of coordination compour	nds							
11	Reactions of coordination compour	nds							
12	Applications of coordination compo	ounds							
13	Applications of coordination compo	ounds							
14	Applications of coordination compo	ounds							
22	Textbooks, References and/or Oth Materials:	[2] [3] Wi [4]	[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						
Activit	tes			Number	Duration (hou				
Theore	ical Assesment			14	3.00	42.00			
	rassesment als/Labs		(	)	0.00	0.00			
Self stu	udy and preperation	R		14	3.00	42.00			
Homev	vorks			)	0.00	0.00			
Project	ts	0	0.6	30	0.00	0.00			
Field S	tudies			)	0.00	0.00			
<b>EXISTRACT</b>	nams	1	50	100	45.00	45.00			
Others				)	0.00	0.00			
	exting of Term (Year) Learning Activ	ities to	50	100	45.00	45.00			
	Vork Load					219.00			
Total w	ork load/30 hr	ide	50	.00		5.80			
	Credit of the Course					6.00			
Measu Course	rement and Evaluation Techniques	Used in th	he Wi	ritten exams, n	nultlple-choice tests and	I presentation.			
24	ECTS / WORK LOAD TABL	E							
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS									

## PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3

ÖK4	4	4	4	5	5	1	1	2	2	4	0	0	0	0	0	0
Contrib ution Level:	ution			s P Medi		rogram Qualifica 4 High		5 Very High								