

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Transition Metal Chemist		tal Chemistry							
Course Code		KİM631		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	8	Workload	204 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course The aim of this course is to compounds and usage are						about propertie	es, nature, m	ethods, reactions,	
the na								theory, valence bo	
								oup metals, prope elements propertie	
Work Placemen	t	natural occurr							
Work Placemen Planned Learnir	-	natural occurr usage areas. N/A	ences, metho	ds of obtainir	ng, reaction		s with other e	elements propertie	

Assessment Methods and Criteria

Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	60			

Recommended or Required Reading

Malcolm Gerloch, Edwin, C. Constable, Transition Metal Chemistry.
P. W. Atkins, Inorganic Chemistry, D.F. Shriver; Oxford, 1999
Tezcan, H., Tezcan, R. Metaller Kimyası Nobel Yayın Dağıtım, 2007.

Week	Weekly Detailed Cours	e Contents
1	Theoretical	
2	Theoretical	
3	Theoretical	
4	Theoretical	
5	Theoretical	
6	Theoretical	
7	Theoretical	
8	Theoretical	
9	Intermediate Exam	
10	Theoretical	
11	Theoretical	
12	Theoretical	
13	Theoretical	
14	Theoretical	
15	Theoretical	
16	Final Exam	

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	4	20	0	80
Reading	14	2	0	28
Midterm Examination	1	25	2	27



Final Examination	1		25	2	27
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS 8					
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes

Learn	ing Outcomes	
1		
2		
3		
4		
5		

Programme Outcomes (Chemistry Doctorate)

1	Depending on the master degree competences, develops, insights and innovates current and advanced knowledge and/or research in proficiency level.
2	Gains high skill levels in using research methods in the field of his/her study.
3	Comprehends the interaction between disciplines related to his/her field. Reaches to original results using his/her expertise in order to analyze, synthesize and evaluate new and complicated ideas.
4	Enlarges the boundaries of his/her field of knowledge by publishing at least one research paper in national and/or international peer-reviewed journals.
5	Defends his/her original opinions related to his/her field before authority and communicates effectively illustrating his/her competence.
6	May communicate and debate written, orally and visually in European Language Portfolio level C1.
7	Follows the developments in computer software and information and communication technologies developed for his/her research area and uses these in order to solve research problems.
8	Collaborates for scientific research with national and international research teams.
9	Contributes to the course of creation and maintenance of knowledge based society and by introducing the scientific, social and cultural developments to the society he/she is living in.

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P1	4	5	4	5	5
P2	4	5	4	5	5