

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Organic Reaction M		tion Mechanis	ms-I						
Course Code		KİM621		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	10	Workload	250 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of	Objectives of the Course Learning to synthesis methods, predict to by-product and new synthesis method for the carbon compounds.								
Course Content		Investigation of basic mechanism in the organic chemistry							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods Explanation (Presentation), Discussion, Problem Solving									
Name of Lectu	urer(s)								

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	20				
Final Examination	1	60				
Assignment	4	20				

Reco	Recommended or Required Reading						
1	Organik Kimya: Solomon						
2	Organik Kimya: Fessenden						
3	Carey, F.A., Sundberg, R.J., Advanced Organic Chemistry: Part A and B, Plenum Press, N.Y., 1991						
4	Miller, B., Advanced Organic Chemistry: Reactions and mechanisms, Prentice Hall, N.J., 2004.						

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Radical reaction mechanisms: Displacements
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	0	22	88		
Reading	14	0	4	56		
Midterm Examination	1	30	2	32		



Final Examination	1		30	2	32
Total Workload (Hours) 25				250	
			[Total Workload (Hours) / 25*] = ECTS	10
*25 hour workload is accepted as 1 ECTS					

Learr	ning Outcomes
1	Comprehension of the behavior of the basic chemical functional groups
2	Knowledge of the basic reaction mechanism
3	Ability to usage of the spectroscopic data in the mechanism
4	Critically investigation to new reaction mechanism in the literature
5	to be able to identify base, acid, nucleofilic and electrophilic properties

Programme Outcomes (Chemistry Doctorate) Depending on the master degree competer

- 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.
- 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.
- 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.
- 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.
- 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	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5		5	5	5
P6	3	3	3	3	
P7	3	3	3	3	
P8	5	5	5	5	

