

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Advanced Organic Chemistry							
Course Code	KİM521	Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 9	Workload 225 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course Moleküler yapı, adlandırma, izomerl sentez tasarımı yapabilmeyi kavram						ınizması ve çok ba	asamaklı
Course Content Molecular structure, nomence of sysnthesis technique			somerism, tauto	omerism and r	esonance, m	nechanism and lea	ırn basic
Work Placement N/A							
Planned Learning Activities and Teaching Methods			tion (Presentat	ion), Discussio	on, Problem	Solving	
Name of Lecturer(s) Assoc. Prof. Fatih EYDURA							

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	20			
Final Examination	1	60			
Assignment	7	20			

Recommended or Required Reading						
1	Organik Kimya: Solomon					
2	Organik Kimya: Fessenden					

Week	Weekly Detailed Cour	se Contents				
1	Theoretical	Theories of chemical bonding				
2	Theoretical	Ionic reactions: Substitution				
3	Theoretical	Ionic reactions: Substitution				
4	Theoretical	Ionic reactions: addition				
5	Theoretical	Radicalic reactions: Substitution				
6	Theoretical	Radicalic reactions: addition				
7	Theoretical	Aromatic electrophilic subtitution reactions				
8	Theoretical	Aromatic nucleofilic subtitution reactions				
9	Preparation Work	An overview of the course topics.				
	Intermediate Exam	midterm exam				
10	Theoretical	Rearrangement reactions				
11	Theoretical	Condensation reactions				
12	Theoretical	Condensation reactions				
13	Theoretical	Oxidation reactions				
14	Theoretical	Reduction reactions				
15	Theoretical	Pericyclic reactions				
16	Preparation Work	An overview of the course topics				
	Final Exam	Term exam				

Workload Calculation						
Activity	Duration	Total Workload				
Lecture - Theory	14	0	3	42		
Assignment	7	13	0	91		
Reading	14	0	2	28		
Midterm Examination	1	30	2	32		



Final Examination	1		30	2	32	
Total Workload (Hours)					225	
[Total Workload (Hours) / 25*] = ECTS					9	
*25 hour workload is accepted as 1 ECTS						

Learning Outcomes							
1	to be able to identify base, acid, nucleofilic and electrophilic properties						
2	to be able to recognize the basic chemical behavior of functional groups.						
3	to be able to use the spectroscopic data						
4	to be able to use spectroscopic data						
5	to be able to recognize the multi step reactions.						

Progr	amme Outcomes (Chemistry Master)					
1	To be able to gain proficiency in depths and analysis by statistical methods in the same or a related area depending on the undergraduate competence,.					
2	To be able to use the knowledge of his/her field and the skills to solve problems and/or applications in interdisciplinary research.					
3	To be able to adopt to evaluate the information and skill his/her field by critical approach.					
4	To be able to evaluate the effect of important persons, case and fact on his/her field applications.					
5	To be able to gain the ability to discuss write and orally present to a group of literate listener.					
6	To be able to communicate orally and written in a foreign language at least at European language B2 level.					
7	To be able to use computer programs related to his/her field and have skills for informatics communication.					
8	To be able to be careful in protecting social, scientific and cultural ethics in collection data, application and presentation.					
9	To be able to develop strategic, political and application plans in his/her field and may evaluate the outcomes in quality periods.					

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	3	3	3	3	3
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	3	4	4	4	4
P5		4	4	4	4
P6		2	2	2	2
P7		5	5	5	5
P8	4	4	4	4	4
P9	3	5	5	5	5

