

MECHANISMS OF MOLECULAR REARRANGEMENTS I

1	Course Title:	MECHANISMS OF MOLECULAR REARRANGEMENTS I	
2	Course Code:	KIM6017	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
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:	none	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. NECDET COŞKUN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	coskun@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	the objective of the course is to provide knowledge on the molecular skeletal transformations through migration of one group from one atom to another within the molecule	
19	Contribution of the Course to Professional Development:	To be able to discuss the mechanisms of main rearrangement reactions	
20	Learning Outcomes:		
		1	Learning some synthetically important basic rearrangement reactions
		2	Learning the mechanisms of rearrangement reactions
		3	Bringing skills for developing some new reactions
		4	To reach the most current data in the literature on the working subject
		5	
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Beckmann Rearrangement		
2	Benzidine, benzoic acid Rearrangements		

3	Claisen Rearrangement			
4	Cope, Pinacol Rearrangements			
5	Stevens Rearrangement			
6	Vinylcyclopropane Rearrangements			
7	Wagner-Meerwein, Wittig Rearrangements			
8	Wolff Rearrangement			
9	Corey-Winter fragmentation			
10	Rearrangements of 1,3-dipolar cycloaddition products			
11	Di-p-methane, Favorski Rearrangements			
12	Fries Rearrangement			
13	Hofmann Rearrangement Neber Rearrangement			
14	Hofmann Rearrangement			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical Materials:		21	Selected publications from the literature	42.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		Yazarlar:	3.00	42.00
Homeworks		0	0.00	0.00
Projects		Oxford : Alpha Science Information Limited.	0.00	0.00
Field Studies		0	0.00	0.00
23	Midterm exams	1	48.00	48.00
Others		0	0.00	0.00
Final Exams		1	48.00	48.00
Midterm Exam		1	48.00	48.00
Total Work Load				180.00
Quiz		0	0.00	0.00
Total work load/ 30 hr				6.00
Home work project		0	0.00	0.00
ECTS Credit of the Course				6.00
Final Exam		1	60.00	60.00
Total		2	100.00	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00		
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		oral presentation		
24	ECTS / WORK LOAD TABLE			

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	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				