

MARMARA UNIVERSITY Faculty of Arts and Sciences

Chemistry Department

SYLLABUS

2015-2016 Fall

Course level: Lisans (First Cycle)

Course Code	Course Name	Course Type	Course Pool (if exists)	Weekly Course Hours		Local Credit	ECTS Credit	Semester
				T	A			
CHEM3154	Organic Chemistry Laboratory II	Zorunlu Grup		0	4	4	4	6

Prerequisite (Ders Kodu ve Adı, Min Harfli Başarı Notu)	Prerequisite to (Ders Kodu ve Adı, Min Harfli Başarı Notu)	Weekly Time & Classroom Schedule (Gün, Saat Aralığı, Derslik)
<Bu dersi bağlayan önceki derslerin kodu, adı, min hb> {Her bir dersi birbirinden noktalı virgülle ayırınız.}	<Bu dersin bağladığı sonraki derslerin kodu, adı, min hb> {Her bir dersi birbirinden noktalı virgülle ayırınız.}	

Course Lecturer	Prof.Dr. Ümit SALAN	Teaching Assistants	Dr. Emrah ÇAKMAKÇI, Dr. Burcu OKTAY
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Web		Web	
Office hour schedule		Office hour schedule	

Course Objectives	Evaluation of experimental methods in the synthesis of organic compounds
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Textbooks and or References	Course Web page:
	1. Denel Organik Kimya Ender ERDİK Ankara Üniversitesi
2. Introduction to Organic Laboratory Techniques, D. L. PAVIA, D. M. LAMPMAN, G. S. KRIZ	
3. Experimental Organic Chemistry, Principles and Patice, Laurence M. HARWOOD, Christopher J. MOODY	

Course Learning Outcomes	1. Perform organic synthesis in laboratory (PO1, PO3, PO4)
	2. Interpret the results of organic analysis (PO6)
	3. Decide necessary methods in the analysis of organic compounds (PO4)
	4. Understand organic synthesis used in industry (PO7)
	5. Use the purification methods (PO4)
	6. Follow instructions in the laboratory, write up reports and draw conclusions from experimental observation (PO5, PO6)

Program Outcomes x Course Learning Outcomes Matrix	Program Outcomes															1:Weak; 2:Medium; 3:Strong
	PK1	PK2	PK3	PK4	PK5	PK6	PK7	PK8	PK9	PK10	PK11	PK12	PK13	PK14	PK15	Course Learning Outcomes
	3		2	3												DK1. Perform organic synt...
						3										DK2. Interpret the result...
			2													DK3. Decide necessary met...
							3									DK4. Understand organic s...
			3													DK5. Use the purification...
				2	3											DK6. Follow instructions ...
	3	0	2	3	2	3	3	0	0	0	0	0	0	0	0	TOTAL EFFECT

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Language of Instruction	Learning Activities and Teaching Methods	Course Presentation Form
İngilizce	Laboratuary techniques	Laboratory course with practical experiments and demonstrations and discussion of the results.

Week	Date	Weekly Course Content	Reference No - Section
1. Week		Preparation to laboratory	
2. Week		Synthesis of nitrobenzene form benzene	
3. Week		Synthesis of anilin form nitrobenzene	
4. Week		Synthesis of hydroxylamine form nitrobenzene	
5. Week		Synthesis of iodobenzene from aniline	
6. Week		Synthesis of azo dyes 1	
7. Week		Synthesis of azo dyes 2	
8. Week		Midterm Exam	
9. Week		Synthesis of methylethylketone from 2-butanol	
10. Week		Synthesis of iodoform from methylethylketone	
11. Week		Synthesis of ester	
12. Week		Synthesis of benzoine from benzine	
13. Week		Cannizaro reaction	
14. Week		Soaps, detergents and perfume 2	
15. Week		Make-up	
16. Week		Study Week	
17. Week		Final Exam	

Evaluation Tool	YSSL (BDS)	BNAL (BDS)	BDKL (BDS)	Calculation of Grade

Evaluation Tools and Weight %	Evaluation Tools	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1		60.00	0.00
	Final-Make up Exam (if exists)			60.00	0.00
	Semester Evaluation Tools			100.00	100.00
	Midterm Exam(s)	1		40.00	40.00
	Quiz(es)				
	Project				
	Homework				
	Laboratory/Atelier				
	Presentation / Seminar / Demo				
	Research / Report / Other				
Attendance					

Student Workload Calculation								
Tool	Weekly Avr. Hour	Semester Total Hour	Tool	Weekly Avr. Hour	Semester Total Hour	Tool	Weekly Avr.	Semester Total hour
Theoretical Hours	0.00	0	Midterm Exam and Preparation	2.00	28	Atelier and Preparation		
Applied Hours	4.00	56	Quiz and Preparation	1.00	14	Presentation/Seminar/Demo and Preparation		
Pre-class Self Study			Project and Preparation			Research/ Report/ Other and Preparation	1.00	14
Pre-application/Post-application Self Study			Homework and Preparation			Final Exam and Preparation		
Total Student Workload Hours:	112		1 ECTS Credit = 25 Student Workload Hours			Workload Calculation:	Hesap Doğru	