

**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		Local Credit	ECTS Credit	Semester
				T	A			
CHEM3153	Organic Chemistry Laboratory I	Zorunlu Grup		0	4	5	5	5

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. Nilhan Kayaman APOHAN	Teaching Assistants	Dr. Emrah ÇAKMAKÇI, Dr. Burcu OKTAY
Office/Room No	C414	Office/Room No	C018
Phone+extension	3479641/1498	Phone+extension	
E-mail	napohan@marmara.edu.tr	E-mail	emrah.cakmakci@marmara.edu.tr burcu.oktay@marmara.edu.tr
Web		Web	
Office hour schedule		Office hour schedule	

Course Objectives	The aim of this course is to teach students isolation and purification methods of organic compounds and some synthetic techniques.
--------------------------	--

Textbooks and or References	Course Web page:	
	1.	Denel Organik Kimya Ender ERDİK Ankara Üniversitesi
	2.	Intrduction 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.	Get detailed information about the laboratory techniques in organic laboratory (PO1, PO4)
	2.	Use the purifications methods (PO4)
	3.	Decide the necessary purification methods of the crude organic products. (PO3)
	4.	Perform the synthesis of some organic compounds. (PO6)
	5.	Apply the content of this course on current subject (PO9)
	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			3												DK1. Get detailed informa...
				3												DK2. Use the purification...
			3													DK3. Decide the necessary...
	3															DK4. Perform the synthesi...
									2							DK5. Apply the content of...
				3	3											DK6. Follow instructions ...
	3	3	3	3	3	3	0	0	2	0	0	0	0	0	0	TOTAL EFFECT

Course Code	Course Name	Course Type	Course Pool (if exists)	Weekly Course		Local Credit	ECTS Credit	Semester
				T	A			
CHEM3153	Organic Chemistry Laboratory I	Zorunlu Grup		0	4	5	5	5
Language of Instruction	Learning Activities and Teaching Methods			Course Presentation Form				
	Laboratuary techniques			Experiments				
Week	Date	Weekly Course Content				Reference No - Section		
1. Week		Laboratory Safety						
2. Week		Crystallization and extraction						
3. Week		Distillation						
4. Week		Chromatography						
5. Week		Drying Techniques						
6. Week		Isolation of caffeine from tea						
7. Week		Make-up						
8. Week		Midterm Exam						
9. Week		Preperation of cyclohexylchloride from cyclohexene						
10. Week		Preperation of cis-1,2-cyclohexanediol from cyclohexene						
11. Week		Preperation of cyclohexanol from cyclohexylchloride						
12. Week		Preparation of cyclohexene from cyclohexanol						
13. Week		Test for carbon-carbon double bonds (Br ₂ and KMnO ₄)						
14. Week		Soaps, detergents and perfume 1						
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	3.00	42	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:		126	1 ECTS Credit = 25 Student Workload Hours			Workload Calculation:	Hesap Doğru	