	ORGANIC CHEMISTRY						
1	Course Title:	ORGANI	C CHEMISTRY				
2	Course Code:	KIM1080					
3	Type of Course:	Compulsory					
4	Level of Course:	First Cyc	ele				
5	Year of Study:	1					
6	Semester:	2					
7	ECTS Credits Allocated:	4.00					
8	Theoretical (hour/week):	3.00					
9	Practice (hour/week):	0.00					
10	Laboratory (hour/week):	0					
11	Prerequisites:	-					
12	Language:	Turkish					
13	Mode of Delivery:	Face to face					
14	Course Coordinator:	Arş.Gör. AYHAN YIDIRIM					
15	Course Lecturers:	Prof. Dr. Necdet Coşkun Doç. Dr. Mustafa Tavaslı Doç. Dr. Nevin Arıkan Ölmez					
16	Contact information of the Course Coordinator:	nbesirli@uludag.edu.tr Tel: 0 (224) 294 1721 Uludağ Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü, Görükle/BURSA 16059					
17	Website:						
18	Objective of the Course:	The aim of the course is to teach the biologically important organic molecules contain functional groups, structural frame and tridimensional structural of organic molecules.					
19	Contribution of the Course to Professional Development:						
20	Learning Outcomes:						
		1	Knowing of the Organic Chemistry and being aware of the importance in Biology.				
		2	Learning of the basic Organic Chemistry terms.				
		3	Learning the reactions of some basic Organic functional groups.				
		4	Learning the physical and chemical properties of some organic compounds that being Biological important.				
		5	Learning the bio-effectiveness and/or the bio-harmfulness of some organic compounds and using these with this consciousness				
		6	Being knowledgeable about the applications of some organic compounds existed in nature.				
		7					
		8					
		9					
		10					
21	Course Content:						
	Course Content:						
Week	Theoretical Practice						

				1
1	Alkanes: - Molecular geometry and Bond angle - Closed, Opened, Compressed and Lineer Formula - Straight chained Alkanes (MethaneDecan)			
2	Alkyl Groups: -General Formula -Methyl, ethyl, n-propyl, n-butyl, n-pentyl, n-hexyln-decyl -isopropyl, sec-butyl, ter-butyl, sec-pentyl, neopentyl			
3	Branched alkanes: -Structural isomerism -Systematic nomenclature			
4	Alcohols and Ethers: -Water molecule -Molecular geometry and Bond angle Alcohols: -Closed, Opened, Compressed and Lineer Formula -Primary, secondary and tertiary alcohols -Mono and poly alcohols, Systematic nomenclature -Forces that holding the molecules together (H-Bond) Ethers: -Closed, Opened, Compressed and Lineer Formula			
Activit	tes	Number	Duration (hour)	Total Work Load (hour)
Theore	i¢ahmonia molecule	14	3.00	42.00
Practic	als/Labs	0	0.00	0.00
Self studio are peration		2	5.00	10.00
Homev	vorks	1	18.00	18.00
Project	Structural isomerism	0	0.00	0.00
Field S	itudies	0	0.00	0.00
Midterr	TEXTERS that holding the molecules together	1	20.00	20.00
Others		0	0.00	0.00
Final E	€®a \$bonyl group	1	30.00	30.00
Total Work Load				120.00
Total wood dosed, 300 bened, Compressed and Lineer				4.00
ECTS (Credit of the Course			4.00
	Ketones: -Closed, Opened, Compressed and Lineer Formula -Systematic nomenclature -Structural isomerism -Forces that holding the molecules together (Dipole-dipole interaction) -Aldose and Ketose sugars			

7	Carboxylic acids and Esters:		
	-Carbonyl, Hydroxyl and Alcoxy group-Molecular geometry and Bond angle		
	Carboxylic acids:		
	-Closed, Opened, Compressed and L Formula	ineer	
	-Systematic nomenclature		
	-Mono and polycarboxylic acids		
	-Forces that holding the molecules together (H-Bond)		
	Esters:		
	-Closed, Opened, Compressed and L Formula	₋ineer	
	-Systematic nomenclature		
	-Forces that holding the molecules to	gether	
	(Dipole-dipole interaction) -Vegetable and animal oils and Waxs	S	
8	Amides:		
	-Carbonyl, Hydroxyl and Amide group -Molecular geometry and Bond angle		
	-Closed, Opened, Compressed and L		
	Formula		
	-Systematic nomenclature-Forces that holding the molecules to	gether	
	(H-Bond or Dipole-dipole interaction)	_	
	-Aminoacids, Proteins and Peptide be	onds	
9	Alkenes: -Molecular geometry and Bond angle		
	-Closed, Opened, Compressed and L		
	Formula -Systematic nomenclature		
	-Geometrical isomerism (Cis-Trans		
	isomerism) -Forces that holding the molecules to	aether	
	(Van der Waals interaction)	geniei	
	-Vegetable fatty acids		
10	Aromatic compounds: -Aromaticity		
	-Benzenoid Aromatic compounds		
	-Heterocyclic Aromatic compounds -Ortho-/meta-/ para- positions		
11	Functional group converisons:		
''	-Determination of oxidation step		
	-Electronegativity (C, H, O, Cl, Br)		
12	Reduction Reaction: -Reductive reagents		
13	Oxidation Reaction:		
1.4	-Oxidative reagents		
14	Acid-base reaction: -Description of acid and base		
	-Poor acids		
	-Strong acids -Buffer solutions		
	Toythooko Beferences and/an Oil		i) C. Solomono vo C. Frible (Cov. Ed. C. Chaves V
22	Materials:		i) G. Solomons ve C. Fryhle (Çev. Ed. G. Okay ve Y. Yıldırır), Organik Kimya, Literatür Yayınları, 2002.
			ii) R. J. Fessenden ve J. S. Fessenden (Çev. Ed. T. Uyar),
			Organik Kimya, Güneş Kitabevi, 1992. iii) J. McMurry, Organic Chemistry, Brooks/Cole Publishing
			Comp., 1992.
			iv) P. Y. Bruice, Organic Chemistry, Prentice Hall, 2001.
23	Assesment		
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT
Midtern	m Exam	1	40.00

Quiz	0	0.00
Home work-project (0.00
Final Exam		60.00
Total		100.00
Contribution of Term (Year) Learning Activit Success Grade	ies to	40.00
Contribution of Final Exam to Success Grad	е	60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		
24 FCTC / WODI/ LOAD TABLE		•

24 | ECTS / WORK LOAD TABLE CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3 ÖK4 ÖK5 ÖK6 LO: Learning Objectives PQ: Program Qualifications 5 Very High 1 very low 3 Medium 4 High Contrib 2 low ution Level: