	OR	GANIC	CHEMISTRY					
1	Course Title:	ORGANIC CHEMISTRY						
2	Course Code:	KIM1080						
3	Type of Course:	Compulsory						
4	Level of Course:	First Cycle						
5	Year of Study:	1						
6	Semester:	2						
7	ECTS Credits Allocated:	3.00						
8	Theoretical (hour/week):	2.00						
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:	Doç. Dr. AYHAN YILDIRIM						
15	Course Lecturers:	Prof. Dr. Necdet Coşkun Doç. Dr. Mustafa Tavaslı Doç. Dr. Nevin Arıkan Ölmez						
16	Contact information of the Course Coordinator:	yildirim@uludag.edu.tr Tel: 0 (224) 294 1771 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 tri- dimensional 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:							
		Co	ourse Content:					
Week	Theoretical		Practice					

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 -İsopropyl, 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			
A (* *	Formula			
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Activi		Number	Duration (hour)	Load (hour)
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Theore				Load (hour)
Theore	i¢ahmonia molecule	14	3.00	Load (hour) 42.00
Theore	als/Labs	14 0	3.00 0.00	Load (hour) 42.00 0.00
Theore Practic Self str Homey	als/Labs	14 0 2	3.00 0.00 5.00	Load (hour) 42.00 0.00 10.00
Theore Practic Self str Homev Project Field S	ali ¢a hmonia molecule cals/Labs works ts Structural isomerism Mana and polyaminon Systematic Studies	14 0 2 1	3.00 0.00 5.00 18.00	Load (hour) 42.00 0.00 10.00 18.00
Theore Practic Self str Homev Project Field S	als/Labs	14 0 2 1 0	3.00 0.00 5.00 18.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00
Theore Practic Self str Homev Project Field S	als/Labs	14 0 2 1 0 0 0	3.00 0.00 5.00 18.00 0.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00
Theore Practic Self str Homey Projec Field S Midtern Others	als/Labs	14 0 2 1 0 0 1 1 1 1 1 1	3.00 0.00 5.00 18.00 0.00 20.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00
Theore Practic Self str Homev Project Field S Midtern Others Final E	Antipage and polyaminas. Sustaination Studies TEXENS that holding the molecules together (H. Rond and Dinale dinale interaction)	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 0.00
Theore Practic Self str Homev Projec Field S Midtern Others Final E Total V	als/Labs al	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 0.00 30.00
Theore Practic Self str Homev Project Field S Midtern Others Final E Total V Total v	als/Labs al	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 20.00 30.00 120.00
Theore Practic Self str Homev Project Field S Midtern Others Final E Total V Total v	Alternation of the Course Ketones:	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 20.00 30.00 120.00 4.00
Theore Practic Self str Homev Project Field S Midtern Others Final E Total V Total v	Alternation and solutions are solutions and solutions and solutions are solutions and solutions and solutions are	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 20.00 30.00 120.00 4.00
Theore Practic Self str Homev Project Field S Midtern Others Final E Total V Total v	Image: Structural isomerism Mark Structural isomerism Mark Structural isomerism Mark Studies TEREMAS that holding the molecules together (H Bond and Dirole dirole interaction) Studies Charkbonyl group Work Load Vork Load Vork Load Ketones: -Closed, Opened, Compressed and Lineer Formula -Systematic nomenclature	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 20.00 30.00 120.00 4.00
Theore Practic Self str Homev Project Field S Midtern Others Final E Total V Total v	Antipic Structural isomerism Mana and polyaminae Custometic Structural isomerism Mana and polyaminae Custometic Structural isomerism Mana and polyaminae Custometic Studies Treogras that holding the molecules together (H Band and Dipole dipole interaction) Studies Vork Load Vork Load Vork Load Ketones: -Closed, Opened, Compressed and Lineer Formula -Systematic nomenclature -Structural isomerism	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 20.00 30.00 120.00 4.00
Theore Practic Self str Homev Project Field S Midtern Others Final E Total V Total v	Image: Structural isomerism Mark Structural isomerism Mark Structural isomerism Mark Studies TEREMAS that holding the molecules together (H Bond and Dirole dirole interaction) Studies Charkbonyl group Work Load Vork Load Vork Load Ketones: -Closed, Opened, Compressed and Lineer Formula -Systematic nomenclature	14 0 2 1 0 1 0 1 0 1 0 1 0 1 0 0 0 1 0	3.00 0.00 5.00 18.00 0.00 20.00 0.00	Load (hour) 42.00 0.00 10.00 18.00 0.00 0.00 20.00 20.00 30.00 120.00 4.00

7	Carboxylic acids and Esters: -Carbonyl, Hydroxyl and Alcoxy grou -Molecular geometry and Bond angle Carboxylic acids: -Closed, Opened, Compressed and L Formula -Systematic nomenclature -Mono and polycarboxylic acids -Forces that holding the molecules to (H-Bond) Esters: -Closed, Opened, Compressed and L Formula -Systematic nomenclature -Forces that holding the molecules to (Dipole-dipole interaction) -Vegetable and animal oils and Waxs	ineer gether ineer gether	
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 (H-Bond or Dipole-dipole interaction) -Aminoacids, Proteins and Peptide bo	ineer. gether	
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 (Van der Waals interaction) -Vegetable fatty acids	ineer.	
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: -Oxidative reagents		
14	Acid-base reaction: -Description of acid and base -Poor acids -Strong acids -Buffer solutions		
22	Textbooks, References and/or Other 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
Midterr	n Exam	<u>к</u> 1	40.00
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Quiz 0						0.0	0.00									
Home work-project 0							0.0	0.00								
Final Exam 1							60	60.00								
Total 2							10	100.00								
Contribution of Term (Year) Learning Activities to Success Grade						40	40.00									
Contribution of Final Exam to Success Grade						60	60.00									
Total							10	100.00								
Measurement and Evaluation Techniques Used in the Course					ne											
24 EC	CTS /	WO	RK L	OAD	TAB	LE										
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS										ME						
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	0	0	5	0	4	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib1 very low2 lowutionLevel:				3	Medi	ium	4 High			5 Very High						