1. Course Description

COURSE DESCRIPTION FORM								
Course Code and Title	CHEM276 ORGANIC CHEMISTRY							
Course Semester	4							
Catalog Description Content) of the Course	Chemical Bonding, Aliphatic and Aromatic Compounds and Their Reactions, Stereochemistry, Free Radicals							
Main Textbook	Atkins R.C., Carey F.A., Organic Chemistry							
Supporting Textbooks	Jart, H., Craine L.E., Hart, D.J., Hadad, C.M., Organic Chemistry. Jolomons G. and Fryhle C., (Organic Chemistry. Jessenden R. T., Fessenden J. S. and Logue W. M., Organic Chemistry.							
Course Credit (ECTS)	5							
Prerequisites of the Course (Compulsory attendance should be indicated here.)	There is no prerequisite or co-requisite for this course. Compulsory attendance							
Type of the Course	Compulsory, theoretic							
Instruction Language of the Course	English							
Object and Target of the Course	To learn basic properties of organic compounds and their behavior in organic reactions. Learning chemistry knowledge with the experiments. Understanding the relationship between daily life and chemicals.							
Learning Outcomes of the Course	Student, who passed the course satisfactorily: 1. will gain a knowledge about chemical bonding 2. will know the structures of aliphatic and aromatic organic compounds 3. will gain a knowledge about the reactions of aliphatic and aromatic organic compounds 4. will gain a knowledge about stereochemistry 5. will gain a knowledge about free radicals							
Mode of Delivery	The mode of delivery of this course is face to face							
Weekly Schedule of the Course	 Week Chemical Bonding Week Alkanes and Cycloalkanes Week Alcohols and Alkyl Halides Week Alkenes and Alkynes I. Structure and Preparation Week Alkenes and Alkynes II. Reactions Week Aromatic Compounds Week Stereochemistry Week Nucleophilic Substitution Week Free Radicals Week Alcohols, Ethers and Phenols Week Aldehydes and Ketones Week Carboxylic Acids Week Amines. 							
Educative Activities (Credit will be determined based on the time given for these activities. Should be filled carefully.)	Theoretical Study Hours of Course Per Week Searching in Internet and Library Presentation Mid-Term and Studying for Mid-Term Final and Studying for Final							
Assessment Criteria	Quantity Total Contribution (%)							

	Midterm	<u> </u>	2	30							
	Homewo	ork	0	0							
	Assignm	nent	0	0							
	Projects		0	0							
	Practice		0	0							
	Quiz		0	0							
		ation of In-term		60							
	Grade	o o veran									
		ntion of Final ntion to Overall		40							
	Grade										
	Attenda	nce		70							
		Activity			Total Week Count	Duration		Total Workload in Semester			
	The	oretical Study Ho	ours of Cours	se Per Week	14	4	56				
	Pra	cticing Hours of	Course Per V	Veek	0	0		0			
	Rea	ding			0	0		0			
	Sea	rching in Interne	t and Library	ı	12	2	24				
		igning and Appl	•		0	0		0			
		Preparing Reports				0		0			
Workload of the Course		paring Presentati	on		0	0		0			
	Presentation					1					
	Mid-Term and Studying for Mid-Term				6	2		12			
					6	2		12			
	Final and Studying for Final				6	3		18			
	Other				0	0		0			
		Total work load						122			
		Total work load/25						4.88	8		
		TS of the course						5			
	No			ogram Çıktıları			1	2	3	4	5
Course's Contribution To Program	1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.									
	2	Ability to identify, formulate, and solve complex engineer ability to select and apply proper analysis and modeling m purpose.							X		
		Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose. (Realistic									
	3	constraints and co	onditions may include factors such as econo sues, sustainability, manufacturability, ethic social and political issues, according to the			nd lth,		X			
	4	Ability to devise, engineering pract effectively		led for			X				
	5	Ability to design interpret results f		d			X				
	6	Ability to work efficiently in intra-disciplinary teams.						X			
	7	Ability to work efficiently in multi-disciplinary teams							X		
	8	Ability to work individually.								X	
	9	Ability to communicate effectively in Turkish/English, both					X				
	J	writing; Ability t	o write effecti	ve reports and comp	rehend written i	reports,	Λ				

		make effective presentations			
	10	Prepare design and production reports, give and receive clear and intelligible instructions.		X	
	11	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.			X
	12	Awareness of professional and ethical responsibility.			X
	13	Information about business life practices such as project management, risk management, and change management.			X
	14	Information about awareness of entrepreneurship, innovation, and sustainable development.	X		
	15	Knowledge about contemporary issues and the global and societal effects of engineering practices on health, environment, and safety.		X	
	16	Knowledge about awareness of the legal consequences of engineering solutions.	X		
	17	Knowledge on standards used in engineering practice.	X		
Name of Lecturer(s) and Contact Information	2.] 3	Prof. Dr. Zeynel Seferoğlu(<u>znseferoglu@gazi.edu.tr</u>) Prof. Dr. Nebahat Değirmenbaşı (<u>nebahatd@gazi.edu.tr</u>) Assoc.Prof. Dr. Serkan Yavuz (<u>syavuz@gazi.edu.tr</u>) Assoc.Prof. Dr. Ebru Aktan (ebruaktan@gazi.edu.tr)			