1.	Name of the Course	ORGANIC CHEMISTRY
2.	Course Code	VTE103
3.	Course Type	Obligatory
4.	Course Level	Undergraduate
5.	Year	1
6.	Semester/Term	Fall, 1VET
7.	ECTS credits	2
8.	National Credits	2
9.	Theory (hours/week)	2h/week
10.	Practice (hours/week)	-
11.	Prerequisites	None
12.	12. Other Recommended Considerations for the Course  None	
13.	Course Language	English
14.	Teaching type	Flipped Learning technique, face to face at classroom.
15.	Course Coordinator	Serkan Sayıner, DVM. PhD. Assoc. Prof.
16.	Other Lecturers	
17.	Coordinator's Contact Information	Near East University, Faculty of Veterinary Medicine, Department of Biochemistry, 99138 Nicosia, TRNC <a href="mailto:serkan.sayiner@neu.edu.tr">serkan.sayiner@neu.edu.tr</a>

18.	Website of the course	https://flippedlearning.neu.edu.tr/
19.	Objectives of the Course	It is an introductory course to acquire the knowledge and skills necessary to understand the basic organic chemistry principles as well as the structure and properties of carbonaceous materials, which will be the basis for biochemistry and other vocational courses.
20.	Contribution of the Course to Professional Development	

	Students' Learning Outcomes	LO1	To understand the related concepts/theories.
		LO2	To be able to discuss and offer suggestions of the relevant concepts / theories in their real life.
		LO3	To be able to apply the relevant concepts / theories to the real life / given cases / cases.
		LO4	To be able to critically analyses real life applications of related concepts / theories.
		LO5	To be able to count and explain related concepts.
21.		LO6	To improve targeted abilities.

		WEEK	THEORETICAL COURSE	PRACTICE CONTENT
			CONTENT	
			General Chemistry (Structure of	-
			Matter, Electron sheath, The Periodic	
		1.	Table, Chemical Bonds)	
			Matters and their Features (States of	_
			Matter, Pure Substances and Mixtures,	
			Homogenous and Heterogenous	
		2.	Systems, Energy and Phase Changes)	
		_	<b>Solutions</b> (Dispersion, Hydration, Type	-
		3.	of Solutions)	
			Acids and Bases (Properties,	-
			Reactions, pH, Indicators, Biological	
		4.	Buffers)	
	<b>Course Content</b>		Redox Reaction (Oxidation and	-
			Reduction); Equilibrium in	
			Multiphase Systems (Diffusion,	
			Osmotic Pressure, Dialysis, Surface	
			Tension, Adsorption);	
			Thermodynamics (Energy Forms,	
			Enthalpy, Entropy); Kinetics of	
			Chemical Reactions (Energy of	
		_	Activation, Catalysts, Factors affecting	
		5.	Reaction Rates)	
			Carbon (C) Atom (Hybridization,	-
		_	Conjugated Double Bonds, Aromatic	
		6.	Compounds, Carbonyl Group)	
			Isomerism in Organic Compounds	-
		_	and Stereochemistry (Constitutional	
22.		7.	Isomerism, Stereoisomerism)	

			Introduction to Organic Molecules	_	
			(Characteristic Features of Organic		
			Molecules, Drawing Organic		
			Molecules, IUPAC Multipliers,		
		8.	Naming, Functional Groups)		
			Hydrocarbons-I (Alkanes)	_	
		9.	, , , , , , , , , , , , , , , , , , ,		
		10	Hydrocarbons-I (Alkenes, Alkynes,	-	
		10.	Aromatic Hydrocarbons)		
			Compounds Containing A Single	-	
			Bond to A Heteroatom-I (Alkyl		
		11.	Halides, Alcohols, Ethers, Phenols)		
			Compounds Containing A Single	-	
		4.0	Bond to A Heteroatom-II (Ethers,		
		12.	Amines, Thiols, Sulfides)		
			Compounds Containing a Carbonyl	-	
		13.	Group (C=O) (Aldehydes, Ketones)		
			Compounds Containing a Carbonyl	-	
			Group (C=O) (Carboxylic Acids,		
		14.	Esters, Amides)		
		1. <u>http</u>	s://biyokimya.vet		
		2. Serr	bek B (2015). Organik Kimya. 2. baskı. Nobel Akademik		
		Yav	yıncılık		
	Textbooks,	_	lomons G, Fryhle C, Snyder S (2016). Organik Kimya. 11th ed.		
	References and/or				
	Other Sources		Viley.		
	Other Sources		nith JG (2010). Organic Chemistry, 3rd Edition, McGraw-Hill.		
		5. Smi	hith JG (2012). General, Organic, & Biological Chemistry 2nd		
		Edit	ition, McGraw-Hill.		
23.			oped Learning NEU Lectures' Documents and Videos		
		J. 111p	Pea Learning Tille Lectures Doean	itelia alla viacob	

		SEMESTER STUDIES	NUMBER	PERCENTAGE OF CONTRIBUTION		
		Midterm exam	1	40		
		Final exam	1	60		
	Evaluation					
		Total	2	100		
		Evaluation Approaches		Exams consist of multiple-choice test		
24.		Evaluation reproduction	/essay/mixed questions.			

		Activity	NUMBER	Time [hours]	Total workload [hours]
		<u> </u>		[Hours]	• •
		Class hours (theoretical)	14	2	28
		Practical hours			
	ECTS / Student's	Out of Class Study Time (Prestudy, reinforcement)	14	1	14
	workload	Assignments, Performances			
		Projects			
		Field studies			
		Midterm exams (Exams' preparation)	1	1	1
25.		Other	2	8	16

Final exams	1	1	1
Total workload			60
Total workload / 30 hours			60/30
ECTS credits of the lecture			2