

MEDICAL CHEMISTRY

1	Course Title:	MEDICAL CHEMISTRY
2	Course Code:	KMY1095
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	2.00
8	Theoretical (hour/week):	2.00
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:	Doç.Dr. NEVİN ARIKAN ÖLMEZ
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	narikan@uludag.edu.tr +90 224 29 41 731 Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 16059 Görükle / BURSA, TÜRKİYE
17	Website:	
18	Objective of the Course:	The aim of the course is to understand the structure of the atom, properties of matter, chemical reactions, structure, properties and reactions of organic compounds. Students will also learn medically important organic compounds and their properties.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Student knows ; Chemical compounds, stociometric calculations in chemical equations
	2	Student knows; Types of solution, concentration units. pH calculations in acid and base solutions
	3	Student has fundamental organic chemistry knowledge.
	4	Student knows; Structure of organic campounds and their properties
	5	Student knows; Organic reactions
	6	Student knows; Medically important organic compounds and their properties
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Explanations of the aim and objectives of lecture, course content and assessment methods and the expectatitons of students. Matters: It's properties and measurement: Classification of matter. Density and composition of matter.			
2	Atoms and the atomic theory: Structure of the atom , elements, the mole and avogadro number.			
3	Chemical Compounds: Periodic table. Types of chemical compounds. Chemical formulas. The Mole and chemical compounds.			
4	Chemical Reactions: Chemical equations and stociometry. Chemical reactions in aqueous solutions.			
5	Solutions: Types of solution, concentration units			
6	Acids and Bases: Definitions of Acids and bases. pH scale.			
7	MIDTERM EXAM Introduction to Organic Chemistry: Comparison of Organic and inorganic compounds. Bonding, structural formulas, isomers.			
8	Hydrocarbons: Alkans, cycloalkans, haloalkans. Alkenes and alkynes. Nomenclature. Reactions. Sources and uses of hydrocarbons			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical as an anesthetic.		14	2.00	28.00
10	Aldehydes and Ketones: Structure and			
Practicals/Labs		0	0.00	0.00
Self study and preparation aldehydes and ketones.		6	1.00	6.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
12	Esters: Structure and nomenclature. Sources,			
Field Studies		0	0.00	0.00
13	Amines: Structure and nomenclature. Uses and reactions of amines	1	15.00	15.00
Midterm exams				
Others		0	0.00	0.00
Final Exams		1	15.00	15.00
Nomenclature. Reactions of aminoacids and				
Total Work Load				64.00
22	Textbooks, References and/or Other	1	General Chemistry (I and II): Petrucci. Harwood. Herring.	2.00
ECTS Credit of the Course				2.00
		Lehman, 1985. 3-Organic Chemistry: F.Solomons, 2002. 4-Organic Chemistry: Tahsin Uyar, 1995. 5-Pharmaceutical Chemistry: G. Melentyeva, L. Antonova, 1988.		
23	Assesment			
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT	
Midterm Exam		1	40.00	
Quiz		0	0.00	
Home work-project		0	0.00	
Final Exam		1	60.00	
Total		2	100.00	

Contribution of Term (Year) Learning Activities to Success Grade	40.00
Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	
24	ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	0	0	4	0	0	0	0	0	0	5	0	0	0	0	0
ÖK2	5	0	0	4	0	0	0	0	0	0	5	0	0	0	0	0
ÖK3	5	0	0	4	0	0	0	0	0	0	5	0	0	0	0	0
ÖK4	5	0	0	4	0	0	0	0	0	0	5	0	0	0	0	0
ÖK5	5	0	0	4	0	0	0	0	0	0	5	0	0	0	0	0
ÖK6	5	0	0	4	0	0	0	0	0	0	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							