ORGANIC CHEMISTRY

1	Course Title:	ORGANIC CHEMISTRY	
2	Course Code:	TIP1003	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	2.50	
8	Theoretical (hour/week):	1.50	
9	Practice (hour/week):	1.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	NONE	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr.Gör. Tıp Fakültesi Öğrenci İşleri	
15	Course Lecturers:	Prof. Dr. Melahat Dirican, Prof. Dr. Zehra Serdar, Prof. Dr. Emre Sarandöl, Prof. Dr. Yeşim Özarda, Doç. Dr. Arzu Yılmaztepe Oral	
16	Contact information of the Course Coordinator:	esma@uludag.edu.tr (224) 2953911 U.Ü. Tıp Fakültesi, Tıbbi Biyokimya AD, Görükle- BURSA	
17	Website:	http://tip.uludag.edu.tr/egitim11/zorunlu-ders-rehberi.doc	
18	Objective of the Course:	Organic chemistry covers a large scale of information that will help to better understand the molecular mechanisms one would meet in medical sciences. Organic chemistry classes are designed to facilitate the comprehension of the chemical structures and reactions that will be encountered in general and special biochemistry courses.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To define the structures of organic (carbon) compounds
		2	To know the rules in nomenclature of organic compounds
		3	To define the macromolecular structures in living organisms
		4	To know the laboratory equipment and methods used in biochemical analyses.
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Theoretical	Practice
2	Overview to biochemistry, atomic structure and bonds	Glassware and laboratory equipment

3	Aromatic compounds, alcohols, ethers, aldehydes, ketons	Spectrophotometer
4	Carboxy acids, amins	Carbohydrates (Fehling , Osazon, Polarimeter)
5	Concentration, Buffers	
6	Principles of photometry	
7	Features and structures of amino acids	
8	Reactions of amino acids	
9	Carbohydrates; general features and classification	
10	Structure and features of monosaccarides	
11	Disaccarides and polysaccarides	
12	Structure and classification of lipids	
13	Membrane transport	
14	Structure of nucleic acids	

22	Textbooks, References and/or Other Materials:	1. Harper’s Illustrated Biochemistry.Murray, Grammer, Mayes, Rodwell. Appleton &Lange, 28e. 2. Tietz textbook of Clinical Chemistry. Ashwood. Saunders (1994). 3. Color Atlas of Biochemistry. Koolman, Röhm. Thieme. (1996).
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**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**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.50	21.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	1.00	14.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			69.00
Total work load/ 30 hr			2.30
ECTS Credit of the Course			2.50

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	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK4	4	0	0	0	0	0	0	0	0	0	0	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