

## DESIGN OF SYNTHESIS IN THE ORGANIC CHEMISTRY II

1	Course Title:	DESIGN OF SYNTHESIS IN THE ORGANIC CHEMISTRY II
2	Course Code:	KIM5066
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	To have taken Organic Chemistry I and II courses.
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. MELİHA ÇETİN KORUKÇU
15	Course Lecturers:	Prof. Dr. Gani KOZA Prof. Dr. Nevin ARIKAN ÖLMEZ Prof. Dr. Mustafa TAVASLI
16	Contact information of the Course Coordinator:	melihacetin@uludag.edu.tr +90 224 29 41 730 Bursa Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 16059 Görükle / BURSA, TÜRKİYE
17	Website:	
18	Objective of the Course:	The aim of this course is to teach the methods required for the synthesis of organic molecules, which is the basic field of organic chemistry. To learn new synthesis methods, and to follow the current literature.
19	Contribution of the Course to Professional Development:	Contribution to academic development
20	Learning Outcomes:	
	1	To learn the aromatic compounds, phenols and aryl halides and their reactions in synthesis design.
	2	To learn the amines, heterocyclic amines and their reactions in synthesis design.
	3	To learn the oxidation-reduction reactions in synthesis design
	4	To learn the reactions of organometallic compounds in synthesis design.
	5	To learn the pericyclic reactions in synthesis design.
	6	To learn the acid-base reactions in synthesis design
	7	To learn how to use the literature search in synthesis design.
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21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice

1	Aromatic compounds, phenols and aryl halides and their reactions in synthesis design.	
2	Amines, heterocyclic amines and their reactions in synthesis design	
3	Oxidation-Reduction reactions in synthesis design	
4	Oxidation-Reduction reactions in synthesis design	
5	Reactions of some organometallic compounds in synthesis design	
6	Reactions of some organometallic compounds in synthesis design	
7	Percyclic reactions in synthesis design	
8	Percyclic reactions in synthesis design	
9	Percyclic reactions in synthesis design	
10	Acid-base reactions in synthesis design	
11	Acid-base reactions in synthesis design	
12	Organic syntheses from current literature.	
13	Organic syntheses from current literature.	
14	Organic syntheses from current literature.	

22	Textbooks, References and/or Other Materials:	1) Organik Kimya, Reaksiyon Mekanizmaları. Metin Balcı TÜBA 2021
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Activites			Number	Duration (hour)	Total Work Load (hour)
Theoretical			14	3.00	42.00
Practicals/Labs			0	0.00	0.00
Self study and preparation			14	4.00	56.00
TERM LEARNING ACTIVITIES			NUMBER	WEIGHT	
Homeworks			0	0.00	0.00
Midterm Exam			1	40.00	0.00
Field Studies			0	0.00	0.00
Homework project			0	30.00	30.00
Others			0	0.00	0.00
Final Exams			2	100.00	52.00
Total Work Load					180.00
Success Grade					6.00
Total work load/ 30 hr					6.00
ECTS Credit of the Course					6.00
Total			100.00		
Measurement and Evaluation Techniques Used in the Course			Measurement and evaluation is carried out according to the principles of Bursa uludag University Associate and Postgraduate Education Regulation.		

24	ECTS / WORK LOAD TABLE
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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	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5
ÖK2	5	0	5	0	5	0	5	0	5	5	0	5	0	0	0	0

ÖK3	5	5	0	5	0	5	0	5	0	5	0	5	0	0	0	0
ÖK4	5	0	5	0	5	0	5	0	5	0	5	5	0	0	0	0
ÖK5	5	0	5	0	5	0	5	0	5	5	5	0	0	0	0	0
ÖK6	5	5	0	5	0	5	0	5	0	5	0	0	0	0	0	0
ÖK7	5	0	5	0	5	0	0	5	0	5	0	5	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			