ORGANIC CHEMISTRY LABORATORY									
1	Course Title:	ORGAN	IC CHEMISTRY LABORATORY						
2	Course Code:	KIM2151							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	le						
5	Year of Study:	2							
6	Semester:	3	3						
7	ECTS Credits Allocated:	2.00							
8	Theoretical (hour/week):	0.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	2							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	face						
14	Course Coordinator:	Doç. Dr. SERKAN ÖZTÜRK							
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	Doç. Dr. Serkan ÖZTÜRK serkanozturk@uludag.edu.tr (224)-2955093 Bursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü							
17	Website:								
18	Objective of the Course:	The aim of the course is to provide students with the necessary laboratory skills related to organic synthesis, isolation and characterization methods.							
19	Contribution of the Course to Professional Development:	To learn the main isolation techniques used in the laboratory, to gain the ability to make organic synthesis and organic chemistry laboratory culture							
20	Learning Outcomes:								
		1	Learn the risks (personal and environmental) associated with organic compounds and use substances with this awareness						
		2	To see the general properties of some organic compounds in practice						
		3	Awareness of organic synthesis						
		4	To gain knowledge and experience about the isolation of the product obtained as a result of organic synthesis						
		5	Gaining organic chemistry laboratory culture						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1			Introduction, General information, Safety rules						

2			Ci ac	Crystallization: Crystallization of salicylic acid from salicylic acid - sand mixture							
3			Di bu te	Distillation: Separation of miscible ethyl acetate and 1- butanol liquids by simple and fractionated distillation techniques							
4			Cl of ex	Chemically active extraction: Separation of a solid mixture of 3-nitroaniline and benzoic acid by chemically active extraction based on acid-base reactions. (I. Quiz)							
5			ls sc	olation of caffeine from plution by extraction me	tea: Isolation of ca	affeine from tea					
6			Th ch lag	Thin layer chromatography: Definition and types of chromatography, separation of two substances by thin layer chromatography and calculation of Rf values							
8			R	Reduction of campbor: Reduction of compher compound							
Ŭ			to	to isoborneol compound with NaBH4							
9			Fi Va ac ca	Fischer esterification reaction: Esters and their properties, Various preparation methods of esters, Preparation of acetate esters of acetic acid with various alcohols catalyzed by H2SO4							
10			Di die re ar	Diels-Alder reaction: Introduction of dienes and dienophiles, mechanism of the Diels-Alder reaction, realization of the Diels-Alder reaction between maleic anhydride and 3-sulfolene. (II. Quiz)							
11			Sy re to	Synthesis of adipic acid from cyclohexanone: Oxidation reactions in organic chemistry, Oxidation of cyclohexanone to adipic acid with KMpO4							
Activites				Number	Duration (hour)	Total Work Load (hour)					
Th e3 re	tical		В	tyl bromide synthesis	Nocleophilic subst	itution a butul					
Practica	als/Labs			14	2.00	28.00					
Se lf4 stu	dy and preperation		P	Փ alem solving, (III. Qu	i ż) 00	14.00					
Homew	vorks			0	0.00	0.00					
Project	Materials:		Ý	klirir), Organik Kimya;	Literatür Yayınları,	2002.					
Field St	tudies			0	0.00	0.00					
Midtern	n exams		Ó	rganic Experiments,; [900 Healt and Com	Bany, 1989.					
Others				1	2.00	2.00					
Final E	kams		S	nhith, Austin R. Tatchel	l8 Ø0gel's Textbook	8f0Practical					
Total W	/ork Load					68.00					
Total w	ork load/ 30 hr					2.00					
ECTS (Credit of the Course					2.00					
			A.	U.F.F Döner Sermaye	lşletmesi yayınları,	, 2000.					
23	Assesment										
TERM L	EARNING ACTIVITIES	NUMBE R	w	EIGHT							
Midterm Exam 1		1	20.00								
Quiz 1				20.00							
Home work-project 0				0.00							
Final Exam 1				60.00							
Total		3	10	0.00							
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	There will be 2 midterm grades in the course evaluation. One is the normal midterm exam and the other one is a combination of quizzes and reports. The contribution percentage of the two midterm grades is 40% in total. There will be a final grade and its percentage is 60%.					

24 ECTS / WORK LOAD TABLE

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