UNIT OPERATIONS IN FOOD ENGINEERING-2									
1	Course Title:	UNIT OF	PERATIONS IN FOOD ENGINEERING-2						
2	Course Code:	GMD3236							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	3							
6	Semester:	6							
7	ECTS Credits Allocated:	5.00							
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:	Prof. Dr. Ö.UTKU ÇOPUR							
15	Course Lecturers:	Yrd. Doç. Dr. Bige İNCEDAYI							
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü 16059 Görükle/Bursa Tel: 0224 2941491 Fax: 0224 2941402 e-posta: ucopur@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	The aim of this course is to give knowledge about food processing principles which is generally common but fundamentally different, drying methods and seperation processes which is applied in the food industry and to teach the principles of instruments and equipments used in food industry.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	The students will be able to learn general principles of unit operations in food industry.						
		2	The students will be able to have knowledge about the implementations of unit operations in food engineering.						
		3	The students will be able to have a skill and knowledge for directing of food production process in different areas of food industry.						
		4	The students will be able to learn drying technology.						
		5	The students will be able to learn different seperation methods.						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
	Course Content:								
Week	Theoretical Practice								

1	Drying of foods								
2	Problem Solving About Drying of Foo	ods							
3	Condensation of Liquid Foods								
4	Absorption and Desorption of Gases								
5	Extraction and Washing								
6	Problem Solving About Evaporation a Separation	and							
7	Overall Evaluation of the Subjects								
8	Distillation and Cyrstallisation								
9	Filtration and Sedimentation								
10	Centrifugal Separation								
11	Pressing								
12	Classification and Milling								
13	Emulsification								
14	Homogenization, Mixing								
Activit			Fak Ders Notları No: Number	Duration (hour)	Load (hour)				
Theore	tical		Gürses, Ö.L. 1986. Gıda 2 190 me Mühendisli 3 20 A.Ü. Ziraat						
Practic	als/Labs		0	0.00	0.00				
Self stu	dy and preperation		Saldamlı, İ., E. Saldar	nlı.41 99 0. Gıda Endü	ნნi0Øakinaları.				
Homew	vorks		0	0.00	0.00				
Project	S		Cemeroğlu, B. 2010. Gıda Mühendisliğinde Tempel						
Field S	tudies		0	0.00	0.00				
Midtern	n exams		1	30.00	30.00				
Others			0	0.00	0.00				
	Adilis	NUMBE R	WEIGHT	35.00	35.00				
	Vork Load				179.00				
	ork load/ 30 hr	0	0.00		4.97				
ECTS (Credit of the Course				5.00				
Final E	xam	1	60.00						
Total		2	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			40.00						
Contrib	oution of Final Exam to Success Grade)	60.00						
Total			100.00						
Measui Course	rement and Evaluation Techniques Us	sed in the							
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	3	3	4	5	2	1	2	2	3	3	0	0	0	0	0
ÖK2	5	4	3	4	5	4	3	3	2	4	3	0	0	0	0	0
ÖK3	5	3	2	4	5	2	1	2	2	3	2	0	0	0	0	0
ÖK4	4	3	2	4	3	2	1	2	2	3	2	0	0	0	0	0
ÖK5	4	3	2	4	3	2	1	2	2	3	2	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution			3 Medium			4 High			5 Very High						