FERMENTED DAIRY PRODUCTS TECHNOLOGY									
1	Course Title:	FERME	NTED DAIRY PRODUCTS TECHNOLOGY						
2	Course Code:	GSD422	GSD4225-S						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	First Cycle						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	Non							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Prof. Dr. TÜLAY ÖZCAN							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü 16059 Görükle/Bursa Tel: 0 224 2941498 Fax: 0 224 2941402 e-posta: : tulayozcan@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	The main purpose of this course is informing the students about various fermented milk products manufacturing technology and their quality characteristics.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Informing about chemistry and biochemistry of fermented milk products						
		2	Informing about various kinds of fermented milk products manufacturing technology (yoghurt, kefyr, koumiss and functional milk products and probiotics)						
		3	Informing about butter manufacturing technology						
		4	Informing about traditional and foreign cheese manufacturing technology						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						

Week	Theoretical	Pr	actice						
1	The Starter Cultures Used in The Production of Fermented Dairy Products		Sampling Methods from Fernented Dairy Products (Cheese, Yoghurt and Buttermilk etc.)						
2	Propagation of Pure Cultures	Ma	Manufacturing of Starter Cultures and Their Activity Tes						
3	Chemistry of Yoghurt and Acid Gels	Ma	Manufacturing of Yoghurt						
4	Yoghurt Manufacturing Technology	Ma	Manufacturing of Fruit Yoghurt						
5	Buttermilk Manufacturing Technology	Tit	Yoghurt Analyses Titritable Acidity Milk Fat						
6	Class Discussion and Midterm Exam	Sy	Yoghurt Analyses Syneresis Starch Test						
7	Fruit Yoghurt Manufacturing Technology	Ма	anufacturing of Kef	yr					
8	Types of Yoghurt and Functional Dairy Products	Tit	Analyses of Kefyr and Koumiss Titritable Acidity CO2						
9	Koumiss Manufacturing Technology	Fr	Buttermilk Analyses Free Fatty Acids Milk Fat Analyse						
Activit	ies		Number	Duration (hour	Total Work Load (hour)				
Theore	ical	TP	eoxide value 14	2.00	28.00				
Practic	als/Labs		14	2.00	28.00				
Self stu	dy and preperation	TDI Mi	ied Matter ik Fat	0.00	0.00				
Homev	vorks		1	5.00	5.00				
Pr <b>1₀</b> 2ect	Cheese Manufacturing Technology and	Ch	neese Analyses	0.00					
Field S	tudies		0	0.00					
Midterr	n exams		1	15.00	15.00				
Others			0	0.00	0.00				
Final E	kams	П	1	20.00	20.00				
Total V	Vork Load				111.00				
Total w	ork load/ 30 hr	П			3.20				
Materials:    Materials:   Unpublished Lecture Note    All Aspects of Cheese Technology I, II (Prof. Dr. Mustafa UÇÜNCÜ)   Science and Technology of Yoghurt (Prof. Dr. Barbaros ÖZER)   Fundamentals of Cheese Science (Ed: Prof. Dr. Barba ÖZER and Adnan Hayaloğlu)   Dairy Science and Technology (Edited by P. Walstra,   J.T.M. Wouters, T.J. Geurts)   Advanced Dairy Chemistry: Vol, 1, 2, 3 (Edited by P. L.   McSweeney, P. F. Fox)   Cheese: General Aspects 3 (Edited by P. F. Fox)   Milk and Milk Products: Technology, Chemistry, and   Microbiology (Edited by A. H. Varnam, J. P. Sutherland)    Assesment   Science   Science   Science   Ed: Prof. Dr. Barbaros   Dr. B									

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT				
Midterm Exam	1	30.00				
Quiz	0	0.00				
Home work-project	1	10.00				
Final Exam	1	60.00				
Total	3	100.00				
Contribution of Term (Year) Learning Activities Success Grade	es to	40.00				
Contribution of Final Exam to Success Grade	)	60.00				
Total		100.00				
Measurement and Evaluation Techniques Us Course	sed in the					
24 ECTS / WORK LOAD TABLE						

## 19 / MOKK LOAD TABLE ין

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	4	4	4	5	4	4	5	5	5	4	0	0	0	0	0
ÖK2	5	4	4	4	5	4	4	5	5	5	4	0	0	0	0	0
ÖK3	5	3	5	4	5	4	4	5	5	5	4	0	0	0	0	0
ÖK4	5	3	5	4	5	4	4	5	5	5	4	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low 2 low ution			3 Medium			4 High			5 Very High							

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					