

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Advances in Dairy Technology		gy							
Course Code	GMP526 (		Couse Level		Se	Second Cycle (Master's Degree)			
ECTS Credit 8	Workload 2	200 (Hours)	Theory 3		Pra	actice	0	Laboratory	0
Objectives of the Course  New techniques used in dairy technology, new production schemes of products, new developments in thermal processing, new equipment, membrane filters, ultrafiltration and evaporation methods, new techniques for the packaging of the product, to learn about in cleaning system.									
Course Content  Classic private purposes ex milk are casein, whey powd varieties, production technodairy products (milk, biogard			er and m logies ar	nilk sugar an nd applicatio	d diabe	etic, therap	eutic, etc. defi the probiotic p	inition of dairy pr roperties of ferm	oducts,
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explana	ation (Preser	ntation)	), Discussi	on, Case Stud	y, Individual Stu	dy
Name of Lecturer(s) Lec. Selda BULCA		_CA							

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	25					
Final Examination	1	55					
Quiz	2	20					

Reco	Recommended or Required Reading							
1	1. Dairy Chemistry and Biochemistry. P.F. Fox and P.L.H. McSweeney, 1998							
2	2. Belitz, H. D, Grosch, W, Schieberle, P, 2009. Food Chemistry, Springer Verlag Berlin, Heidelberg							
3	3. Varnam, A. H., Sutherland J. P. 1994. Milk and Milk Products Technology, chemistry and microbiology (is available as e-book in ADU-library)							
4	4. Walstra, P., Wouters, J.T.M., Geurts, T.J. 2006. Dairy Science and Technology. 2nd Edition, CRC Press (is available as e-book in ADU-library)							
5	5. Dairy Processing Handbook, Tetra Pak Processing Systems AB, Second, revised edition, 2003							

Week	Weekly Detailed Cours	se Contents
1	Theoretical	Süt üretimi ve kullanımı
2	Theoretical	Sütün bileşimi
3	Theoretical	Laktoz
4	Theoretical	Süt Yağı
5	Theoretical	Süt proteinleri
6	Theoretical	Sütün mineral maddeleri
7	Theoretical	Süt ve süt ürünlerinde vitaminler
8	Theoretical	Süt ve süt ürünlerinde su
9	Intermediate Exam	İşlenen konuların değerlendirilmesi
10	Theoretical	Süt ve süt ürünleri enzimolojisi
11	Theoretical	Sütte sıcaklığın meydana getirdiği değişimler
12	Theoretical	Peynir ve fermente süt ürünlerinin kimyası ve biyokimyası
13	Theoretical	Sütün fiziksel özellikleri
14	Theoretical	Süt Teknolojisinde Starter Kültürü kullanımı
15	Final Exam	Dersin genel değerlendirilmesi

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	9	2	154
Quiz	2	6	1	14
Midterm Examination	1	15	1	16



Final Examination	1		15	1	16	
	200					
[Total Workload (Hours) / 25*] = <b>ECTS</b>						
*25 hour workload is accepted as 1 ECTS						

Learni	ing Outcomes		
1	1. Sütün bileşimi hakkında bilgi sahibi olur		
2	2. Sütün fiziksel ve kimyasal özelliklerini bilir		
3	3. Sütün temel biyomoleküllerinin yapı ve özellikleri ve	bileş	şenlerin teknolojik açıdan önemleri konularını öğrenmiş olur
4			
5			

Progr	amme Outcomes (Food Engineering Master)
1	To provide further training and research opportunities to food engineers to meet the needs of the food industry
2	To develop and deepen the current and advanced knowledge in the field of food engineering with original thought and / or research at the level of expertise, based on the qualifications of the master
3	To identify, define, formulate and solve problems in applications related to Food Engineering and gain the ability to select and apply appropriate analytical methods and modeling techniques
4	To gain the ability to evaluate the accuracy of the data obtained from food analysis
5	To educate students having research, entrepreneur qualifications

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P1	3	3	3	1	1
P2	2	2	2		
P3	3	4	4		
P4	4	4	5		
P5	4	3	4		

