

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Dairy Science							
Course Code		VBH606		Couse Leve	el	Third Cycle ([Doctorate De	egree)	
ECTS Credit	7	Workload	175 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of t	the Course		nans from mill	k and public	health prote	ection measure		ents of milk, infect healty of milk and	
Course Conte	nt					nportance of m nological appli		n, the factors affeonilk.	cting the
Work Placeme	ent	N/A							
Planned Learn	ning Activities	and Teaching	Methods			tion), Experime lem Solving	ent, Demons	tration, Discussion	n,
Name of Lectu	ırer(s)								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recor	mmended or Required Reading
1	İnal, T. Süt ve Süt Ürünleri Hijyen ve Teknolojisi
2	Üçüncü, M. Süt bilimi
3	Tekinşen, C. Süt ve Süt Teknolojisi

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Description of milk, The place and importance of milk in the diet
	Practice	Determination of milk density
2	Theoretical	Formation of milk
	Practice	PH and acidity of milk
3	Theoretical	Milk characteristics, organoleptic and physical properties of milk
	Practice	Determination of milk fat
4	Theoretical	The composition of milk; protein, fat, carbohydrates of milk
	Practice	Determination of dry matter and ash content of milk
5	Theoretical	milk enzymes
	Practice	Enzyme activity tests
6	Theoretical	Milk vitamins
	Practice	To seek of preservative substance from milk
7	Theoretical	Mineral mineral substances of milk, organic acids, milk gases
	Practice	Determination of milk protein
8	Intermediate Exam	Midterm exam
9	Theoretical	Colostrum and other milk groups
	Practice	Determination of antibiotic presence in milk
10	Theoretical	Determination of factors affecting the amount and composition of milk
	Practice	General microorganism count in milk
11	Theoretical	abnormal milk
	Practice	Identification of yeasts and molds in milk
12	Theoretical	Microflora of milk and the origin of the microorganisms that make up the microflora, breast skin and the microflora of the breast
	Practice	Sütte koliform bakteri varlığının araştırılması
13	Theoretical	Technological applications applied to milk (homogenization, heat, cooling, irradiation and freezing) and their effects
	Practice	Counting micrococci and satafilococci in milk



14	Theoretical	Pasteurized and sterile milk technology
	Practice	Investigation of S. aureus in milk
15	Theoretical	Cleaning and disinfection and HACCP applications in dairy
	Practice	Investigation of pathogen bacteria in milk

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	14	0	3	42
Reading	14	0	2	28
Midterm Examination	1	17	1	18
Final Examination	1	30	1	31
		To	otal Workload (Hours)	175
		[Total Workload (Hours) / 25*] = ECTS	7
*25 hour workload is accepted as 1 ECTS				

Learn	ning Outcomes
1	To learn about nutritional value of milk and its components
2	To learn the mechanism of milk formation
3	To learn the conditions for healthy milk production
4	To have necessary knowledge about microbial flora of raw milk and milk quality
5	To learn and apply milk platform tests
6	Raw milk preservation and processing

Progra	amme Outcomes (Food Hygiene and Technology (Veterinary Medicine) Doctorate)
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13	

Contri	bution	of Lea	rning	Outcon	nes to	Progra
	L1	L2	L3	L4	L5	L6
P1	5	5	5	5	5	5
P2	5	5	5	5		5
P3				4	5	5
P4			5	5	4	
P7	5	5				
P9	5	5	5	5	5	5
P10	5	5	5	5	5	5
P11				4	5	
P12				4	4	
P13			5	5	5	5

