

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Butter Technology							
Course Code	ST414 Cous		Couse Le	Level First Cycle ((Bachelor's Degree)		
ECTS Credit 4	Workload	102 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course The productions of cream and butter and influencing factors of this process will learn, they will be able to realize their individual production conditions								
Course Content	Standards of cream and butter, significance in terms of composition and nutrition, raw metarial characateristic and relationship with production procces, packaging and preservation of butter and spoilage and defect are investigated.							
Work Placement	N/A							
Planned Learning Activities and Teaching Methods			Explanation	n (Presenta	tion), Discussi	on, Individua	al Study	
Name of Lecturer(s)								

Assessment Methods and Criteria				
Method	Quantity Percentage (
Midterm Examination	1	40		
Final Examination	1	70		

Recommended or Required Reading				
1	Oysun, G. 1999. Tereyağı Teknolojisi. E.Ü.Z.F Yay. Teksir no:38/3, 86s			
2	Atamer, M. 1983. Tereyağ Teknolojisi. A.Ü.Z.F. Yay. No:1313. Ankara			
3	Tekinşen, C. 1996. Süt Ürünleri Teknolojisi. Selçuk Ünv. Vet.Fak.Yay. No: ISBN:9759567817, 326s.			

Week	Weekly Detailed Course Contents				
1	Theoretical	Definition of cream and butter, standards			
2	Theoretical	Raw metarials characteristic			
3	Theoretical	Produciton process, desing of plants			
4	Theoretical	Pasteurization and deodorization			
5	Theoretical	Technique of physical maturation			
6	Theoretical	Physical maturation and desing of plants			
7	Theoretical	Biological maturation			
8	Intermediate Exam	Midterm Exam			
9	Theoretical	Effects of biological maturation and desing of plants			
10	Theoretical	Churning and influencin factors of churning			
11	Theoretical	Tuzlama yöntemleri, malakse, tereyağında kullanılabilecek katkı maddeleri Salting methods, malakse, ingredients of butter			
12	Theoretical	Continu butter prodution, efficiency (output)of butter, packaging			
13	Theoretical	Production of coffe cream and roll cream			
14	Theoretical	Produtions of whipped cream			
15	Theoretical	Quality, preservation, spoilage and defect of Butter,			
16	Final Exam	Term Exam			

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	2	2	56	
Lecture - Practice	14	0	2	28	
Individual Work	14	0	1	14	
Midterm Examination	1	0	2	2	



Final Examination	1		0	2	2
Total Workload (Hours)			102		
			[Total Workload (Hours) / 25*] = ECTS	4
*25 hour workload is accepted as 1 ECTS					

Learn	ning Outcomes				
1	Student should be able to: have information about legal regulation of Cream and Butter				
2	have sufficient information compositions and nutritional value of Cream and Butter				
3	explain production process and influencing factors of production process				
4	express seasonal production procees of Butter				
5	have deficient knowledge about preservation of Butter				
6	explain quality of Butter				
7	evaluation spoilage and defects of butter				
8	have knowledge produciton of cream yields				

Programme Outcomes (Dairy Technology) Having sufficient infrastructure in basic sciences and engineering subjects and ability to use the theoretical and applied info instantly in this field. Determining the modern techniques, tools and information technologies required for applications related with his field and 2 ability to use them efficiently 3 Ability for planning, projecting, and designing, following up, analyzing and finding target-driven solutions related with his field Ability to have professional ethic and awareness. 4 5 Ability to work, decide, express opinions orally and in written individually Ability to participate team studies, taking responsibility, making leadership. 6 7 Ability to conceive Ataturk's principles and reforms, to communicate in Turkish and foreign language. Ability to comprehend the necessity to learn for a life time, to monitor developments in science and technology and 8 continuously renew himself. Having sufficient level of information about production and quality control of milk and dairy products and also product 9 development, increasing product quality and food security fields. Ability to detect, define, solve problems related with his field and to select and apply suitable methods and modeling 10 techniques for this purpose. To be conscious about workplace applications, worker health, work security and environment subjects, to have knowledge 11 about legal results of the engineering applications related with his subject.

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2:Low, 3: Medium, 4: High, 5: Very High L1 L2 L3 L4 L6 L7 L8 L5 P1 5 5 5 5 5 5 5 5 P9 5 5 5 5 5 5 5 5

