

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Cheese Production Technolo			logies					
Course Code	VBH637		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit 5	Workload	125 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course To have a detailed knowledge of the coagulation mechanism of milk, cheese production technology and cheese varieties				logy and				
Course Content Nutritional value of cheese, biochemical structure of milk proteins, milk coagulation mechanism, cheese varieties, soft, semi-hard, hard and very hard cheese production technologies								
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study					٦,
Name of Lecturer(s)								

Assessment Methods and Criteria				
Method Quantity Percenta				
Midterm Examination	1	40		
Final Examination	1	60		

Recommended or Required Reading 1 Coagulation Properties of Milk 2 Dairy technology

Week	Weekly Detailed Cour	se Contents				
1	Theoretical	Nutritional composition and components of cheese, the importance of cheese in nutrition				
	Practice	Chemical quality tests in milk				
2	Theoretical	Chemistry of milk proteins				
	Practice	Milk reduction tests				
3	Theoretical	Coagulation mechanism of milk proteins				
	Practice	Antibiotic residue tests in milk				
4	Theoretical	Enzyme-induced coagulation and Acid-induced coagulation				
5	Theoretical	Effect of milk hygiene on cheese quality				
	Practice	Determination of moisture and ash in cheese				
6	Theoretical	Processes applied to milk before cheese production				
	Practice	Determination of acidity in cheese				
7	Theoretical	Starter cultures used in cheese production				
8	Theoretical	Midterms examination				
	Intermediate Exam	Midterms examination				
9	Theoretical	Cheese production process				
	Practice	Determination of protein in cheese				
10	Theoretical	Hard cheese production				
	Practice	Determination of fat in cheese				
11	Theoretical	Semi-hard cheese production				
	Practice	Determination of aerobic mesophilic bacteria, coliforms, yeast and mold in cheese				
12	Theoretical	Cheeses made from sour milk				
	Practice	Tests of dosage and strength rennet in cheese production				
13	Theoretical	Soft cheese production				
14	Theoretical	Fresh cheese production				
	Practice	White cheese production				
15	Theoretical	Melting and cream cheeses production				
	Practice	Curd cheese production				



Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	2	28
Assignment	10	0	3	30
Reading	10	0	2	20
Midterm Examination	1	11	1	12
Final Examination	1	20	1	21
		To	otal Workload (Hours)	125
		[Total Workload (Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes				
1	To learn the composition and component of raw milk			
2	To learn coagulation mechanism of milk proteins			
3	to learn about how to adjust dosage and strength rennet in cheese production			
4	To learn cheese types and cheese technology			
5	To learn the physical, chemical and microbiological defects in cheese			
6	To ensure food safety in cheese production ve HACCP application			

Progra	amme Outcomes (Food Hygiene and Technology (Veterinary Medicine) Doctorate)
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Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

L1 L2 L3 L4 L5 L6 P1 P2 Р3 P4 P6 P7 P9 P10



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