

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Starter Cultures in Food Ind		ustry						
Course Code	VBH552	VBH552		Couse Level		Second Cycle (Master's Degree)		
ECTS Credit 3	Workload	75 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Cours	e Definition of s	tarter cultures	and areas	of application	n, the mechan	ism of action	n	
Course Content		The effects of microorganisms attributed as starter cultures, general properties and characteristics of starter cultures used in meat and dairy industry						
Work Placement N/A								
Planned Learning Activities and Teaching Methods		Explanation	n (Presenta	tion), Discussi	on			
Name of Lecturer(s)	Lec. Sadık BÜ	ÜYÜKYÖRÜK						

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

Recor	Recommended or Required Reading					
1	Kılıç S., Süt Mikrobiyolojisi, 2010.					
2	Üçüncü M., Süt ve mamülleri teknolojisi, 2010					
3	Anar Ş., Et ve et ürünleri teknolojisi, 2010.					

Week	Weekly Detailed Cour	se Contents			
1	Theoretical	Starter cultures and their characteristics			
2	Theoretical	Probiotics and lantibiotics			
3	Theoretical	Starter cultures used in meat technology 1: Staphylococcus spp			
4	Theoretical	Starter cultures used in meat technology 2: Lactobacilli			
5	Theoretical	Starter cultures used in meat technology 3: Micrococcus spp			
6	Theoretical	Starter cultures used in meat technology 4: Kocuria spp			
7	Theoretical	Starter cultures used in meat technology 5: Pediococcus spp			
8	Intermediate Exam	Midterm exam			
9	Theoretical	Starter cultures used in milk technology 1: Lactococci			
10	Theoretical	Starter cultures used in milk technology 2: Lactobacilli			
11	Theoretical	Starter cultures used in milk technology 3: Streptococci			
12	Theoretical	Starter cultures used in milk technology 4: Leuconostoc spp			
13	Theoretical	Starter cultures used in milk technology 5: Bifidobacterium			
14	Theoretical	Yeast and mould used as a Starter cultures			
15	Theoretical	Discussion			
16	Final Exam	Final exam			

Workload Calculation							
Activity	Quantity	ntity Preparation		Duration	Total Workload		
Lecture - Theory	14	14 0		1	14		
Seminar	2		0	2	4		
Reading	14		0	2	28		
Midterm Examination	nination 1		10	2	12		
Final Examination	I Examination 1		14	3	17		
Total Workload (Hours)							
[Total Workload (Hours) / 25*] = ECTS							
*25 hour workload is accepted as 1 ECTS							



Learning Outcomes						
1	To determine the features of strains which must carry to be called a starter culture					
2	Determination of mechanisms of starter cultures					
3	Specifying starter cultures used in meat industry					
4	Specifying starter cultures used in dairy industry					
5	The terms of probiotics					
6	Lantibiotics and their working principles against to pathogenic microorganisms					

Progra	ramme Outcomes (Food Hygiene and Technology (Veterinal	ry Medicine) Master)
1		
2		
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11		
12		
13		

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

	L1	L2	L3	L4	L5	Lb
P1	5		4	3		
P2	4		3	2	5	1
P3	1	4				5
P4	3	4	5			2
P5	3	4	5			2
P6	3	4	5			2
P7	3	4	5			2
P8	3	4	5			2
P9	2			5	4	3
P10	2			5	4	3
P11	2			5	4	3
P12	2			5	4	3
P13	2			5	4	3

