

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

BH530 /orkload 100 <i>(Hours)</i> o learn sufficient knowledge arn the production technolo	e about probi	2 iotic food ty		2	Laboratory	0 tion, to	
b learn sufficient knowledge	e about probi	iotic food ty	ypes, the forma	_			
				ation mechai	nism of fermentat	tion, to	
/Α							
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study, Problem Solving				
//	rpose, production technolo A I Teaching Methods	rpose, production technologies of ferm A I Teaching Methods Explanation	rpose, production technologies of fermented milk A I Teaching Methods Explanation (Presentat	Pose, production technologies of fermented milk products produces A I Teaching Methods Explanation (Presentation), Experime	Prose, production technologies of fermented milk products produced in the A I Teaching Methods Explanation (Presentation), Experiment, Demons	Teaching Methods Explanation (Presentation), Experiment, Demonstration, Discussion	

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	60	

Recommended or Required Reading

1	Lee, B. 1996. Fundamentals of Food Biotechnology. VCH Publishers Inc., NY.				
2	Madigan, M.t., Martinko, J.M., Parker, J. 1997. Brock Biology of Microorganisms. Prentice- Hall, International, London				
3	Salminen, S., Wright, A. von. 1998. Lactic Acid Bacteria: Microbiology and Functional Aspects. Marcel Dekker Inc. NY				
4	Wood, B.J.B. 1998. Microbiology of Fermented Foods. Vol. I, II. Blackie Academic and Professional. London.				

Week	Weekly Detailed Cour	se Contents					
1	Theoretical	Definition of probiotics and general characteristics of probiotics					
	Practice	Production of yoghurt					
2	Theoretical	Methods used in the diagnosis of probiotics					
	Practice	Production of yoghurt					
3	Theoretical	Microorganisms used in fermented dairy products					
	Practice	Determination of fat in yoghurt					
4	Theoretical	Bacteria and yeasts which used as probiotics					
	Practice	Measurement of acidity and pH in yogurt					
5	Theoretical	Production technologies of fermented dairy products					
	Practice	Determination of dry matter and ash in fermented dairy products					
6	Theoretical	Yoghurt					
	Practice	Investigation starch in yoghurt					
7	Theoretical	Kefir					
	Practice	Analysis of lactose, glucose, galactose in fermented dairy products					
8	Intermediate Exam	Midterm exam					
9	Theoretical	Koumiss					
	Practice	Microbial analysis of yoghurt					
10	Theoretical	Milk with acidophilus					
	Practice	Microbial analysis of yoghurt					
11	Theoretical	Concentrated fermented dairy products					
	Practice	Determination of yeasts and molds					
12	Theoretical	fermented milk products and their properties (Aktifit, Biokys, biyomild, vita, gerb) less or less produced in our country					
	Practice	Production of kefir					
13	Theoretical	Various fermented dairy products (tofu, labne, bio yoghurt)					
	Practice	Production of kefir					
14	Theoretical	Powder-dried fermented dairy products					



14	Practice	Determination of fat in ayran and kefir		
15	Theoretical	milk product which heat treated fermented after fermentation		
	Practice	Investigation of coliform bacteria in fermented dairy products by MPN method		

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Seminar	2	0	4	8
Reading	14	0	1	14
Midterm Examination	1	8	1	9
Final Examination	1	12	1	13
	100			
	4			

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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Programme Outcomes (Food Hygiene and Technology (Veterinary Medicine) Master)

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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	5	5	5	5	5	5
P11	5		5			
P12			5	5	4	5

