

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Advanced Food Microbiology								
Course Code VBH603 Co		Couse Le	Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit 6	Workload 150 (Ho	urs) Theory	2	Practice	2	Laboratory	0	
Objectives of the Course	Objectives of the Course To give the basics of food microbiology then to meet complicated points of food microbiology and to have detailed knowledge about food poisoning cases/infections caused by food borne agents					nd to have		
Course Content The microbiological ecology of pathogens their features a spoilage.								
Work Placement N/A								
Planned Learning Activities	Explanati	on (Presenta	tion), Experime	ent, Demon	stration, Discussion	n		
Name of Lecturer(s) Prof. Filiz KÖK								

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

Recommended or Required Reading

- 1 Erol İ. (2008). Gıda Hijyeni
- 2 Jay (1996) Modern Food Microbiology

Week	Weekly Detailed Cour	rse Contents
1	Theoretical	Introduction
	Practice	Introduction
2	Theoretical	The definition of food microbiology.
	Practice	Demonstration of food microbiology laboratory
3	Theoretical	Microbiological ecology of foodstuff.
	Practice	Detailed explanations related with the equipment used for routine laboratory work , their usage aims and mechanisms.
4	Theoretical	Microorganisms cause spoilage in foodstuff.
	Practice	Culture media, preparation of culture media and plating out methods.
5	Theoretical	Introduction to the food pathogens.
	Practice	Basic staining methods and microscope using techniques.
6	Theoretical	Food borne bacterial pathogens.
	Practice	Basic routine analysis-(Total Viable Count)
7	Theoretical	Food borne bacterial pathogens.
	Practice	Examination of foods for coliforms
8	Practice	Examination of foods for E. coli
	Intermediate Exam	Midterm exam
9	Theoretical	Food borne bacterial pathogens
	Practice	Microbiological analysis of foods for Salmonella



		Course Information Form
10	Theoretical	Food borne bacterial pathogens.
	Practice	Microbiological analysis of foods for Listeria
11	Theoretical	Food borne bacterial pathogens.
	Practice	Examination of foods for Clostridia
12	Theoretical	Food borne viral pathogens
	Practice	Examination of foods for Bacillus
13	Theoretical	Food borne viral pathogens.
	Practice	Examination of foods for Campylobacter
14	Theoretical	Food borne parasitic pathogens.
	Practice	Examination of foods/water for Pseudomonas
15	Theoretical	Discussion
	Practice	Discussion/ Evaluation of the analysis reports

Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	2	28			
Lecture - Practice	14	0	2	28			
Reading	9	0	3	27			
Midterm Examination	1	20	1	21			
Final Examination	1	45	1	46			
Total Workload (Hours)							
	6						
*25 hour workload is accepted as 1 ECTS							

Learn	Learning Outcomes					
1	To gain sufficient knowledge about microbiological ecology of foodstuff.					
2	To know possible health risks of foods from animal origin					
3	To have sufficient knowledge related with pathogenesis of food borne agents					
4	To obtain detailed knowledge related with defence mechanism of body to the food borne agents					
5	To understand mechanism of microbial spoilage.					
6	To develop a better understanding about the prevention from food borne infections/intoxications					
7	To gain sufficient knowledge and practical experience related with isolation identification and enumeration of food pathogens and determination of toxins.					

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 L7 P1 5 5 5 5 5 5 P2 5 5 5 5 5 5 P3 5 5 5 5 5 5 5 P4 5 5 5 5 5 5 5 P6 5 5 5 5 5 5 5 P9 4 5 5 5 5 5 5 P10 5 5 5 5 5 5 5 P11 5 5 5 5 5 5 5 P13 5 5 5 5 5 5 5				_			_	
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P12 5	P10	5	5	5	5	5	5	5
	P11							5
P13 5	P12							5
	P13							5

