

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Food Microbiology Apolysis						
Course Title Food Microbiology Analysis							
Course Code	Course Code GKA102 Couse Level Short Cycle (Associate's Degree)		egree)				
ECTS Credit 3	Workload 78 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	With this course students; legislation and methods of analysis of the counting of suitable as indicator microorganisms, pathogenic microorganisms analysis, milk and dairy products and juices, meat, fruit vegetables, microbiological analysis of honey with grain and products are aimed to gain the competencies to do the microbiological analysis.						
Course Content Sampling, media preparation, Colonial Census, Preparation for Microbiological Analysis, Culture Acquisition, Microscopic Examination, meat, fruit and vegetables, cereals and their products, milk and milk products, to microbiological analysis of honey with water / evaluation, Analysis of Microbiology Laboratory Post-Processing					milk and		
Work Placement	N/A						
Planned Learning Activities and Teaching Methods		Explanation	n (Presenta	tion), Experime	ent, Demonstra	ation, Individual	Study
Name of Lecturer(s) Lec. Hafize Ayla SARI							

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

Arda, M. 2000. Temel Mikrobiyoloji. Medisan Yayın Serisi: 46. Ankara, 548 sayfa

Recommended or Required Reading 1 "Gıda Mikrobiyolojisi" Ed. Prof. Dr. Osman Erkmen,Eflatun Yayınevi,2010. [2] "Gıda Mikrobiyolojisi" Prof. Dr. Adnan ÜNLÜTÜRK, Prof. Dr. Fulya TURANTAŞ 2 "Gıda Mikrobiyolojisi" Prof. Dr. Adnan ÜNLÜTÜRK, Prof. Dr. Fulya TURANTAŞ

Week	Weekly Detailed Cours	se Contents				
1	Theoretical	Preparation and examination, examination under a microscope using a simple painting technique, microscopic examination using Gram Staining technique				
	Practice	Preparation and examination, examination under a microscope using a simple painting technique, microscopic examination using Gram Staining technique				
2	Theoretical	Preparation of the medium , and cultivation done microorganism count (homogenization and dilution)				
	Practice	Preparation of the medium , and cultivation done microorganism count (homogenization and dilution)				
3	Theoretical	Preparation of the medium , and cultivation done microorganism count (homogenization and dilution)				
	Practice	Preparation of the medium , and cultivation done microorganism count (homogenization and dilution)				
4	Theoretical	The isolation and identification of microorganisms				
	Practice	the isolation and identification of microorganisms				
5	Theoretical	The isolation and identification of microorganisms				
	Practice	The isolation and identification of microorganisms				
6	Theoretical	Indicator Microorganisms in Water Analysis, Pathogenic Microorganisms in Water Analysis				
	Practice	Indicator Microorganisms in Water Analysis, Pathogenic Microorganisms in Water Analysis				
7	Theoretical	Microbiological Analysis of Raw Milk				
	Practice	Microbiological Analysis of Raw Milk				
8	Theoretical & Practice	Midterm Exam				
9	Theoretical	Microbiological Analysis in Milk and Dairy Products				
	Practice	Microbiological Analysis in Milk and Dairy Products				
10	Theoretical	Microbiological analysis of meat and meat products				
	Practice	Microbiological analysis of meat and meat products				
11	Theoretical	Microbiological analyzes of fruits and vegetables				



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11	Practice	Microbiological analyzes of fruits and vegetables			
12	Theoretical	microbiological analysis in grains and products			
	Practice	microbiological analysis in grains and products			
13	Theoretical	Microbiological analyzes of honey			
	Practice	Microbiological analyzes of honey			
14	Theoretical	Microbiological analyzes of canned			
	Practice	Microbiological analyzes of canned			
15	Theoretical	food poisoning			
	Practice	food poisoning			
16	Final Exam	final exam			

Activity Quantity Preparation Duration Total Workload								
Activity	Quantity	Preparation	Preparation Duration					
Lecture - Theory	14	1	1	28				
Laboratory	14	2	1	42				
Reading	4	0	1	4				
Individual Work	2	0	1	2				
Midterm Examination	1	0	1	1				
Final Examination	1	0	1	1				
Total Workload (Hours)								
[Total Workload (Hours) / 25*] = ECTS								

Learning Outcomes

- make a count of indicator organisms 1
- Microbiological analysis of meat and meat products do / evaluate
- 3 Microbiological analysis of meat and meat products do / evaluate
- Cereal products and microbiological analyzes do / evaluate 4
- 5 Honey make microbiological analysis / evaluating
- 6 Milk and make their products and evaluate microbiological analysis

Programme Outcomes (Food Quality Control and Analysis)

- 1 Having basic knowledge about food products
- Having knowledge for Production and hygiene in food products, preservation, microbiology, quality control and analysis 2
- 3 Having skills and discipline for working in the laboratory and using laboratory materials,
- 4 Developing positive attitudes about learning and knowledge and lifelong learning in the field.
- 5 Using the information and communication technologies at the level required by the work areas
- 6 Act in accordance with scientific, cultural and ethical values
- 7 Having sufficient consciousness about environmental protection, occupational health and safety issues.

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	3	3		2		
P2	4	4	3	3	3	3
P3	4	5	5	5	5	5
P5	3					

