

#### AYDIN ADNAN MENDERES UNIVERSITY GRADUATE SCHOOL OF HEALTH SCIENCES VETERINARY FOOD HYGIENE AND TECHNOLOGY FOOD HYGIENE AND TECHNOLOGY (VETERINARY) FOOD HYGIENE AND TECHNOLOGY (VETERINARY) MASTER COURSE INFORMATION FORM

Course Title		Water Hygien	e and Analysis	s Methods					
Course Code		VBH543		Couse Leve		Second Cycle	(Master's D	egree)	
ECTS Credit	5	Workload	128 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the C	Course	The important the water-relation	ce of water, wa ted	ater requirem	ient, impor	tance of water	for human h	ealth, laboratory	analysis of
Course Content		Presence of w methods appli chemical mea	vater in the wo ed to waters, surements in	rld, physical, Water color, waters	chemical a turbidity, p	and microbiolo H, odour meas	gical propert surements. T	ies of water. Insp he microbiologic	pection al,
Work Placement		N/A							
Planned Learning	Activities	and Teaching	Methods	Explanation Individual S	(Presenta tudy, Probl	tion), Experime em Solving	ent, Demonst	tration, Discussio	on,
Name of Lecturer(	s)				_				

### **Assessment Methods and Criteria**

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

### **Recommended or Required Reading**

1	Erol, İ., 2007. Gıda Hijyeni ve Mikrobiyolojisi. ISBN 978-975-00131-0-9, Pozitif Matbaacılık Ltd. Şti., Ankara
2	Uğur, M., Nazlı, B., Bostan, K. 1999. Gıda Hijyeni. Teknik Yayınları, İstanbul.
3	Demirer, A. 1995. Su Hijyeni. Ankara Üniversitesi, Veteriner Fakültesi, Besin Hijyeni ve Teknolojisi, Teksir.
4	Hazard characterization for pathogens in food and water :guidelines Geneva : WorldHealthOrganization, 2003.
5	Benjamin, Mark M. 2002. Waterchemistry 1st ed. – Boston, MAU
6	Lenore S., Clesceri, WEF, Chair Arnold E. Greenberg, APHA Andrew D. Eaton, AWWA 1998. Standard methods for the examination of water and wastewater. Edited by. American Public Health Association, 20 th Edition,

Week	Weekly Detailed Course	se Contents
1	Theoretical	Introduction
	Practice	Introduction
2	Theoretical	Definition and importance of water hygiene
	Practice	Introduction to laboratory equipment and materials
3	Theoretical	The importance of water and water requirement
	Practice	Preparation the equipment and materials for the physical examinations of the waters
4	Theoretical	The importance of water for human health
	Practice	Physical examination of the waters
5	Theoretical	The physical properties of the waters
	Practice	Preparation the equipment and materials for the chemical examinations of the waters
6	Theoretical	Chemical properties of the waters
	Practice	Determination of hardness of water
7	Theoretical	The natural microflora of the water
	Practice	Analysis of organic matter in the water
8	Intermediate Exam	Midterm
9	Theoretical	Water sources
	Practice	Analysis of ammonia, nitrate, nitrite in water
10	Theoretical	The causes of the contamination of the waters
	Practice	Other chemical analysis of water
11	Theoretical	Self-purification of waters and clearing the waters
	Practice	Preparation of media for microbiological examinations waters
12	Theoretical	Water disinfection



12	Practice	Searching for coliform bacteria in water and EMS method
13	Theoretical	The important water-borne microorganisms
	Practice	Search for other microorganisms in water
14	Theoretical	Legal regulations related with water
	Practice	Evaluation of the results obtained
15	Theoretical	Discussion
	Practice	Discussion

# **Workload Calculation**

Workload Galculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	4	0	5	20
Reading	14	0	1	14
Midterm Examination	1	15	1	16
Final Examination	1	21	1	22
		Тс	otal Workload (Hours)	128
		[Total Workload (	Hours) / 25*] = <b>ECTS</b>	5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

	To be set the importance of sector
1	To learn the importance of water
2	To learn the characteristics of the waters
3	To learn the importance of water for human health
4	To learn water-borne microorganisms
5	To learn legal regulations related with water
6	To learn laboratory analyses of water

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

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
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
P1	5	5	5	5	5	5
P3	1	1	1	1		
P4					2	1
P5						2
P6	3	3	3	3	4	
P7	2	2	2	2	3	3
P9	2	2	2	2		
P10	5	5	5	5	5	5
P11						5



P12 5
-------

