CHEMICAL AND MICROBIOLOGICAL ANALYSES OF ANIMAL- DERIVED FOODS AND WATER										
1	Course Title: CHEMICAL AND MICROBIOLOGICAL ANALYSES OF ANIMAL-DERIVED FOODS AND WATER									
2	Course Code:	VBH602	VBH6020							
3	Type of Course:	Optional	Optional							
4	Level of Course:	Third Cy	hird Cycle							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	4.00	4.00							
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	GÜL ECE SOYUTEMİZ							
15	Course Lecturers:	Yok								
16	Contact information of the Course Coordinator:	Mail: soyutemiz@uludag.edu.tr Tel: 02242941333 Adres: Bursa Uludağ Ünv. Veteriner Fak. Besin Hijyeni ve Teknolojisi Anabilim Dalı								
17	Website:	http://saglikbilimleri.uludag.edu.tr								
18	Objective of the Course:	contamir principle	experience on food chemistry, sources of food nation, food microbiology food infection and intoxication, s of food preservation, hygiene of water and foods of animal emposition and microbiological spoilages of foods of animal							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Basic chemical composition of food,							
		2	Food microbiology,							
		3	Contamination sources and hazardous materials in foods							
		4	Factors effecting microbial growth in foods and foodborne diseases							
		5	Technological applications for food preservation							
		6	Microbiological, chemical and physical characteristics of waters,							
			Cleaning and disinfecting of waters							
		7	Cleaning and disinfecting of waters,							
		8	Laboratory technics for food analysis							

21	Course Content:								
	Course Content:								
Week	Theoretical		Practice						
1	Chemical composition and analysis r of animal foods Determination of protand lipid		Chemical analyses of foods I						
2	Chemical composition and analysis r Determination of moisture, starch and and the certain physical analysis met (pH, water activity values) of animal f	d salt) hods	Chemical analyses of foods II						
3	Microorganisms causing animal food spoilage(Bacteria)	s	Preparation for microbiological analyses I						
4	Microorganisms causing animal food spoilage (Yeast and mould)	S	Preparation for microbiological analyses II						
5	Sampling methods for microbiologica analysis in animal foods		Preparation for microbiological analyses III						
6	Homogenization, dilution and differer techniques in animal foods		Sampling methods for microbiological analyses						
7	The importance and enumeration me total aerobic mesophilic bacteria and mould counts in animal foods		TAMGC and yeast and mold counts in foods						
8	The importance of indicator microorg in animal foods	Detection of coliforms in water							
9	Different methods for the detection or microorganisms and identification me E coli and determination of E coli col.	ethod for	Determination of E. coli in foods						
Activites				ımber	Duration (hour)	Total Work Load (hour)			
Theore	<del>l'eul</del>		14		3.00	42.00			
Practica	Erochnoss etalonoss critoria in oggs als/Labs		0	<u>or microbiological a</u>	0.00	0.00			
Self stu	methods for micropiological analysis	of	14		2.00	28.00			
Homew	- Waler		0		0.00	0.00			
Pr <b>t/2</b> ect	The importance for human health of	chemical	Ch0er	nical analyses of w	/ <b>edie0</b> 10	0.00			
Field St	tudies		0		0.00	0.00			
Midtern	neixambiological water control		1		25.00	25.00			
Others	<del>μαστορίο πιοσορπιίο ραστοπά σομπιο, τ</del>		0		0.00	0.00			
Final E	Morm bacteria and fecal coliforms	in waters	1		25.00	25.00			
	/ork Load					120.00			
Total w	sulphite-reducing anaerobes in water ork load/30 hi the isolation methods	s and				4.00			
22	Credit of the Course Textbooks, References and/or Other Materials:		1.Erol, I., 2007. Food Hygiene and Microbiology. ISBN 978-975-00131-0-9, Pozitif Printing Ltd. Şti., Ankara. 2.Uğur, M., Nazlı, B., Bostan, K. 1999. Food Hygiene. Teknik Publications, İstanbul. 3.İnal, T. 1992. Food Hygiene-Health Control of Animal Food Products. Final Ofset A.Ş. Second edition, İstanbul. 4.Soyutemiz,G.E., Çetinkaya F. 1999. The Practice Lesson Notes of Food Hygiene and Technology, Faculty of Veterinary Medicine, University of Uludag. Faculty of Veterinary Medicine, University of Uludag, Publication Number: 1, Bursa.						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIG	ЭНТ					
Midtern	n Exam	0	0.00						

	0.00 100.00 100.00 0.00				
	100.00				
)	0.00				
	100.00				
	100.00				
	In order to determine the students' level of knowledge and skills in the field of Chemical and Microbiological Analyzes of Animal Foods and Water, the measurement activity is carried out in written form as a final exam.				
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## 24 | ECTS / WORK LOAD TABLE

25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS										ME					
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	5	4	2	4	5	2	4	4	1	2	5	3	0	0	0	0
ÖK2	4	2	4	5	4	2	2	2	1	2	3	3	0	0	0	0
ÖK3	4	4	5	2	3	4	2	2	2	4	1	4	0	0	0	0
ÖK4	5	3	5	4	2	3	3	3	3	2	3	4	0	0	0	0
ÖK5	5	5	3	5	3	2	5	3	3	3	4	4	0	0	0	0
ÖK6	4	4	5	3	4	4	3	4	2	3	3	3	0	0	0	0
ÖK7	4	5	4	3	2	2	1	2	3	4	4	3	0	0	0	0
ÖK8	4	4	4	3	2	2	1	2	4	5	5	4	0	0	0	0
		l	O: L	earr	ning (	Objec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	; ;	•	•
Contrib	ution			2	2 low 3			Medium		4 High			5 Very High			

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution Level:					
LCVCI.					