

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Chemical, Microbiologic	cal, Physical ar	nd Sensory A	nalysis of Mea	t and Meat Pr	roducts	
Course Code	VBH627	Couse Le	vel	Third Cycle ([	Doctorate Deg	gree)	
ECTS Credit 5	Workload 125 (Ho	urs) Theory	1	Practice	2	Laboratory	0
Objectives of the Course	To teach chemical, mic	robiological, ph	nysical and se	ensory analysis	s of meat		
Course Content	To teach the routine apmeat.	plications for th	ne analysis of	chemical, phy	sical, microbi	ological and sens	sory of
Work Placement	N/A						
Planned Learning Activities	and Teaching Methods		on (Presenta		ent, Demonsti	ration, Discussior	١,
Name of Lecturer(s)							

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

Reco	mmended or Required Reading	
1	Varham and Sutherland, Meat and Meat Products.	
2	Handbook of Meat, Poultry and Seafood Quality	

Week	<b>Weekly Detailed Cour</b>	se Contents
1	Theoretical	Introduction to the microbiological analaysis carried out in meat and meat products.
	Practice	Media used in food microbiology, their preparation, plating out methods and evaluation of the results
2	Theoretical	The numbers of TMA, coliform, Staphylococ-micrococ, Staph. aureus, yeast and moulds and Enterobacteriaceae in meat and meat products
	Practice	Application of the therical lecture in practice
3	Theoretical	Determination of Salmonella spp., Listeria monoctyogenes, Y. enterocolitica, E. coli O157:H7 in meat and meat products
	Practice	Application of the therical lecture in practice
4	Theoretical	Description of taste aroma and texture.
	Practice	Application of the therical lecture in practice
5	Theoretical	Establishment of panels, education of panelists, Description of sensory analysis, and smell, taste, aroma and texture. Basic tests used in sensory analysis
	Practice	Application of the therical lecture in practice
6	Theoretical	Dual comparison tests, Triangle test, Hedonic scale rating test
	Practice	Application of the therical lecture in practice
7	Theoretical	Evaluation of tests
	Practice	Discussion
8	Intermediate Exam	Midterm
9	Theoretical	Introduction to chemical analysis in meat and meat products
	Practice	Introduction to chemistry lab
10	Theoretical	Protein and fat analysis carried out in meat and meat products
	Practice	Application of the therical lecture in practice
11	Theoretical	pH, salt, dry matter and fat analysis in meat and meat products.
	Practice	Application of the therical lecture in practice
12	Theoretical	Cheating in meat and meat products
	Practice	Histolocical analysis of meat and meat products
13	Theoretical	Species differentiation in meat and meat products
	Practice	Serological and moleculer test for species differentiation



14	Theoretical	Determination of putrefaction in meat and meat products
	Practice	Spoilage tests
15	Theoretical	Discussion
	Practice	Discussion

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	2	28
Assignment	14	0	1	14
Reading	14	0	1	14
Midterm Examination	1	20	1	21
Final Examination	1	33	1	34
		T	otal Workload (Hours)	125
		[Total Workload	(Hours) / 25*] = <b>ECTS</b>	5

Learn	ing Outcomes
1	knows the chemical analysis of meat and meat products
2	applies the physical analysis for meat and meat products
3	carries out microbiological analysis in meat and meat products
4	carries out sensory analysis in meat and meat products
5	knows the tests and applies them to determine the cheatings done by manufacturer
6	can carry out species differentiation by using ELISA and moleculer techniques

Progra	amme Outcomes (Food Hygiene and Technology (Veterinary Medicine) Doctorate)
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Contri	bution	of Lea	rning (	Outcon	nes to l	Progra
	L1	L2	L3	L4	L5	L6
P1	5	5	5	5	5	5
P2	5	5	5	5	5	5
P3	5	5	5	5	5	5
P4	5	5	5	5	5	5
P5	5	5	5	5	5	5
P6	5	5	5	5	5	5
P9	5	5	5	5	5	5
P10	5	5	5	5	5	5
P11	5	5	5	5	5	5
P12	5	5	5	5	5	5
P13	5	5	5	5	5	5

