SPECIAL MICROBIOLOGY								
1	Course Title:	SPECIAL MICROBIOLOGY						
2	Course Code:	VET3001						
3	Type of Course:	Compulsory						
4	Level of Course:	First Cycle						
5	Year of Study:	3						
6	Semester:	5						
7	ECTS Credits Allocated:	4.00						
8	Theoretical (hour/week):	3.00						
9	Practice (hour/week):	2.00						
10	Laboratory (hour/week):	0						
11	Prerequisites:	General Microbiology, Immunology Serology						
12	Language:	Turkish						
13	Mode of Delivery:	Face to face						
14	Course Coordinator:	Prof. Dr. MIHRIBAN ÜLGEN						
15	Course Lecturers:	Yard. Doç. Dr. Esra Büyükcangaz						
16	Contact information of the Course Coordinator:	ulgenm@uludag.edu.tr , +90 224 294 12 93 Uludağ Üniversitesi Veteriner Fakültesi Hayvan Hastanesi Mikrobiyoloji Anabilim Dalı, Nilüfer,BURSA ulgenm@uludag.edu.tr , +90 224 294 12 93 Uludag Univercity, Faculty of Veterinary Medicine, Department of Microbiology, BURSA/TURKEY						
17	Website:	http://www.veteriner.uludag.edu.tr						
18	Objective of the Course:	To educate qualified students in the field of bacterial, fungal diseases of animals except poultry; especially, related to epidemiology, laboratory diagnosis, control and vaccines of these diseases and control of zoonoses						
19	Contribution of the Course to Professional Development:							
20	Learning Outcomes:							
		1	Able to recognize colony and microscopic appearance of bacteria and fungi.					
		2	Able to grasp route of transmission and pathogenesis of bacteria and fungi.					
		3	Able to predict the disease according to the symptoms.					
		4	Able to collect and send the samples from infected animals.					
		5	Able to carry out laboratory diagnosis methods.					
		6	Able to carry out antimicrobial susceptibility test					
		7	Able to carry out prevention and control procedures and vaccines					
		8	Able to carry out eradication programs in notifiable diseases					
	9							
		10						
21	Course Content:							
		Co	ourse Content:					
Week	Theoretical		Practice					

1	Introduction to Special Microbiology and information about the course, mastitis and other infections caused by Streptococcus and Staphylococcus species	Gram stain and microscopic examination of Streptococcus and Staphylococcus species; collection and transportation of milk samples with mastitis, laboratory diagnosis, CAMP and koagulase tests.						
2	General features of Enterobacteriaceae family, Colibacillosis, other infections of E.coli; Salmonella , Klebsiella, Yersinia and Aeromonas infections and zoonotic importance of these infections	Gram stain and microscopic examination of Enterobacteriae species; collection and transportation of faecal samples; laboratory diagnosis						
3	General features of Pasteurella, Mannheimia, Haemophilus, Actinobacillus, Pseudomonas and Burkholderia species; Glanders and other infections	Gram stain and microscopic examination of Pasteurella, Mannheimia, Haemophilus, Actinobacillus, Pseudomonas species; examination of colonial properties of them						
4	General features of Moraxella, Taylorella, Bordetella,Bartonella and Brucella species and infections caused by them; zoonotic importance of Brucellosis	Microscopic examination of Moraxella, Bordetella and Brucella species; laboratory diagnosis of Brucellosis						
5	Zoonotic importance of Campylobacter, Helicobacter and Listeria infections	Gram stain and microscopic examination of Campylobacter, Listeria species and laboratory diagnosis						
6	General features of Erisipelothrix, Actinomyces, Nocardia, Corynebacterium and Rhodococcus species and infections caused by them	Gram stain and microscopic examination of Corynebacterium species and Rhodococcus equi; examination of colonial properties of them; CAMP test (R.equi, C.renale)						
Activit	es	Number	Duration (hour)	Total Work Load (hour)				
Theore	ical	14	3.00	42.00				
Practic	als/Labs	14	2.00	28.00				
Self stu	(II) and preperation	laddratory diagnosis	3.00	42.00				
Homew	vorks	0	0.00	0.00				
Project	Clostridium (II), Bacteriodes, and	Laboratory diagnosis of	angerobic non-spo	e-Юming				
Field S		0	0.00	0.00				
Midtern	General features of Leptospira and Texams Mycoplasma species and infections caused	Examination of Mycopla lidentification procedure	asma colony and iso	PI				
Others		0	0.00	0.00				
Final E	Leptospirosis karns	1	2.00	2.00				
	/ork Load			115.00				
Total w	Ricketales Chlamidia and Chlamydophila	Laboratory diagnosis of Ricketsia, Chlamidia and Chlamidia						
ECTS (	Credit of the Course			4.00				
12	Dermatophytes and Subcutaneous mycoses	Antihacterial susceptible	lity testing					
13	Systemic mycoses (I)	Antibacterial susceptibility testing  Isolation and identification procedures and other diagnostic techniques of fungi						
14	Systemic mycoses (II) and mycotoxins	Direct microscopic examination and staining methods of fungi						
1								

┚

Γ

22	Textbooks, References and/or Other Materials:								- Veterinary Microbiology (Bacterial Disease), (N. Aydın, M. İzgür, K. Serdar Diker, H. Yardımcı, Ö. Esendal, J. Paracıkoğlu, M. Akan, İlke-Emek Press, Ankara, 2006) - Veterinary Microbiology- Bacterial and Fungal Agents of Animal Disease (J. Glenn Songer, Karen W. Post, Elsevier Saunders, USA, 2005) - Essentials of Veterinary Bacteriology and Mycology, Sixth Edition (G.R.Carter, Darla J. Wise, Iowa State Press, Iowa, 2004) - Veterinary Microbiology and Microbial Disease (P.J. Quinn, B.K. Markey, M.E. Carter, W.J. Donnelly, F.C. Leonard, Blackwell, Great Britain, 2002) - Clinical Veterinary Microbiology (P.J.Quinn,M.E., Carter, B.Markey, G.R.Carter, Mosby, London, 2000) - Special Microbiology Lecture Notes (Prof. Dr. Mihriban Ülgen-2013) (unpublished)							
23	Assesi	ssesment														
TERM L	LEARNII	RNING ACTIVITIES NUMBE							WEIGHT							
Midterr							1	40	40.00							
Quiz							1	10	10.00							
Home	work-project						0	0.0	0.00							
Final E							1	50	50.00							
Total							3	10	100.00							
	Contribution of Term (Year) Learning Activities to Success Grade							50	50.00							
Contrib	ribution of Final Exam to Success Grade							50	50.00							
Total	al 1							10	100.00							
Measu Course	1						ed in th	ie								
24	ECTS	/ WC	DRK L	OAD	TAB	LE										
25									RNING OUTCOMES TO PROGRAMME UALIFICATIONS							
	PG	1 PQ	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0
ÖK3	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	3	0	0	2	5	0	1	3	0	0	0	0	0	0	0	0
ÖK8	3	1	0	0	3	0	0	5	0	0	0	0	0	0	0	0
			LO: I	earr	ning (	Obje	ctives	s F	PQ: P	rogra	ım Qu	alifica	ations	- <u></u>		
Cont	contrib 1 very low				2 low 3			Vled	edium 4 High			5 Very High				

ution Level: