

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Light Microscopy- Pr	ocessir	ng and Stain	ing Tecniqu	ies			
Course Code	VPT604		Couse Leve	el	Third Cycle ([Doctorate Deg	ree)	
ECTS Credit 4	Workload 104 (I	Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Processing and hand impregnation and em sections, methods fo lipids, carbohydrates inclusion bodies.	nbeddin r conno	g) routine st ctive tissues,	aining proc	edures and sp ic granuels, at	ecial technique ologic and nuc	ies, preparation of clear elements, fa	of ats and
Course Content	Processing and hand impregnation and em sections, methods fo lipids, carbohydrates inclusion bodies.	nbeddin r conno	g) routine st	aining proc	edures and sp ic granuels, at	ecial technique ologic and nuc	ies, preparation of clear elements, fa	of ats and
Work Placement	N/A							
Planned Learning Activities	and Teaching Method	ds	Explanation	(Presenta	tion)			
Name of Lecturer(s)								

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

Recommended or Required Reading

Thomson, R.G., (1978) General Veterinary Patology, W.B.Saunders Company. Philadelphia, USA
Gavin, M.D.M., Zachary, J. F. (2007) Pathologic Basis of Veterinary Disease, Mosby, London, UK

Week	Weekly Detailed Cour	rse Contents
1	Theoretical	Tissues fixation methods
	Preparation Work	Book
2	Theoretical	Processing and handling of tissues for examination
	Preparation Work	Book
3	Theoretical	Processing tissues (fixation, dehydration, clearing, impregnation and embedding)
	Preparation Work	Book
4	Theoretical	Routine staining procedures and special techniques
	Preparation Work	Book
5	Theoretical	Methods for haematologic and nuclear elements
	Preparation Work	Book
6	Theoretical	Methods for fats and lipids
	Preparation Work	Book
7	Theoretical	Methods for carbohydrates and mucoproteins
	Preparation Work	Book
8	Preparation Work	Book
	Intermediate Exam	Mid term Exam
9	Theoretical	Methods for inclusion bodies
	Preparation Work	Book
10	Theoretical	Methods for pigments and minerals
	Preparation Work	Book
11	Theoretical	Methods for nevre cells and fibers
	Preparation Work	Book
12	Theoretical	Methods for cytoplasmic granuels
	Preparation Work	Book
13	Theoretical	Methods for bacteria, fungi



13	Preparation Work	Book	
14	Theoretical	Examination of preparations	
	Preparation Work	Book	
15	Theoretical	Overview	
	Preparation Work	Book	
16	Preparation Work	Book	
	Final Exam	Final Exam	
17	Preparation Work	Book	
	Final Exam	Final Exam	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	1	2	42
Midterm Examination	1	8	1	9
Final Examination	1	10	1	11
		To	tal Workload (Hours)	104
		[Total Workload (Hours) / 25*] = ECTS	4
*25 hour workload is accepted as 1 ECTS				

Learn	ing Outcomes
1	To be knowledgeable about Processing and handling of tissues for examination, processing tissues
2	To have knowledge about decalcification and softening methods
3	To learn the principles of dehydration, transparency and preparation of blocks
4	To be knowledgeable about methods for connective tissues, cytoplasmic granuels, atologic and nuclear elements, fats and lipids, carbohydrates and mucoproteins, pigments and minerals, nevre cells and fibers, bacteria, fungi, inclusion bodies
5	To apply methods for connective tissues, cytoplasmic granuels, atologic and nuclear elements, fats and lipids, carbohydrates and mucoproteins, pigments and minerals, nevre cells and fibers, bacteria, fungi, inclusion bodies

Progr	amme Outcomes (Pathology (Veterinary Medicine) Doctorate)
1	The student knows lesions of organs and tissues as well as pathological mechanisms of infectious/noninfectious diseases of especially farm and pet animals.
2	The student intensify theorical and practical knowledge.
3	The student will learn and apply a variety of theoretical methods of diagnosis.
4	Students macroscopic and microscopic signs of diseases characterized by evaluating the clinical findings and examine the comparative.
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	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5
P6	5	5	5	5	5
P7	5	5	5	5	5
P8	5	5	5	5	5
P9	5	5	5	5	5
P10	5	5	5	5	5

