



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Light Microscopic Techniques							
Course Code		VPT504		Coure Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	101 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Preparation of the tissues to cross section(fixation, dequalification, dehydration methods, ) routine and special staining methods; cytoplasmic granules of connective tissue; hematological and nuclear elements, staining methods of lipids, pigments and minerals, nerve cells, carbohydrates, bacteria fungi							
Course Content		Preparation of the tissues to cross section(fixation, dequalification, dehydration methods, ) routine and special staining methods; cytoplasmic granules of connective tissue; hematological and nuclear elements, staining methods of lipids, pigments and minerals, nerve cells, carbohydrates, bacteria fungi							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Prof. Nihat TOPLU, Prof. Recai TUNCA							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Jones, T.C., Hunt, R.D., King, N.W., (1996) Veterinary Patology, Waverly Company, Philadelphia, USA.
2	Thomson, R.G., (1978) General Veterinary Patology, W.B.Saunders Company. Philadelphia, USA.

Week	Weekly Detailed Course Contents	
1	Theoretical	The fixation methods
	Preparation Work	Book
2	Theoretical	Dehydration,clearing tissues and preperation blocks
	Preparation Work	Book
3	Theoretical	Preperation blocks
	Preparation Work	Book
4	Theoretical	Preparation of the tissues to cross section
	Preparation Work	Book
5	Theoretical	Routine staining methods
	Preparation Work	Book
6	Theoretical	Special staining methods
	Preparation Work	Book
7	Theoretical	Cytoplasmic granules of connective tissue
	Preparation Work	Book
8	Preparation Work	Book
	Intermediate Exam	Mid term Exam
9	Theoretical	Hematological and nuclear elements
	Preparation Work	Book
10	Theoretical	Staining methods of lipids
	Preparation Work	Book
11	Theoretical	Staining methods of carbohydrates and mucoproteins
	Preparation Work	Book
12	Theoretical	Staining methods of pigments and minerals
	Preparation Work	Book
13	Theoretical	Alkalosis
	Preparation Work	Book
14	Theoretical	Staining methods of bacteria, fungi and inclusion body
	Preparation Work	Book



15	Theoretical	Overview
	Preparation Work	Book
16	Preparation Work	Book
	Final Exam	Final Exam

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	4	0	6	24
Individual Work	2	0	3	6
Midterm Examination	1	5	1	6
Final Examination	1	8	1	9
Total Workload (Hours)				101
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

**Learning Outcomes**

1	To be knowledgeable about the fixation of the tissues and types of the fixation solutions
2	To be knowledgeable about the preparation of the sections of tissues.
3	To be knowledgeable about the histochemical staining methods
4	To be knowledgeable about the the properties of light microscope
5	To gain the ability to apply the histochemical methods in the laboratory

**Programme Outcomes (Pathology (Veterinary Medicine) Master)**

1	The student knows anatomy, structure/function of organs and tissues as well as physiological mechanisms of especially farm animals.
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**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	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

