	HISTOPATH	IOLO	GICAL TECHNIQUES							
1	Course Title:	HISTOP	ATHOLOGICAL TECHNIQUES							
2	Course Code:	VPT 500	3							
3	Type of Course:	Compuls	ory							
4	Level of Course:	Second	Cycle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	5.00								
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 f	ace							
14	Course Coordinator:	Prof. Dr.	M.MÜFIT KAHRAMAN							
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:)uludag.edu.tr, 224 2941303, Uludağ Üniv. Veteriner Fak. Anabilim Dalı Görükle Kampüsü 16059 BURSA							
17	Website:	http://saglikbilimleri.uludag.edu.tr								
18	Objective of the Course:	tissues, p	students the fixation, decalcification, processing of preparation of sections and staining methods for nological examination							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	The student learns fixative solutions and application techniques, fixation problems and delcalcification techniques							
		2	The student learns processing of tissues and embedding in paraffin							
		3	The student learns preparation of sections							
		4	The student learns routine hematoxylin and eosin staining method							
		5	The student learns special staining techniques							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
	Theoretical		Practice							
1	Preparation of tissues (fixation)	`	Preparation and application of fixative solutions							
2	Preparation of tissues (decalcification	,	Preparation and application of decalcifying solutions							
3	Processing of tissues (dehydration, o	clearing,	Dehydrating, clearing and embedding in paraffin of tissues							
4	paraffin embedding) Preparation of sections		Preparation of sections							

5	Routine staining procedures (Hematoxylin and Eosin methods)									Routine Hematoxylin and Eosin staining									
6	Staining methods of connective tissue (collagen, keratin, mucin, muscle)									Connective tissue staining									
7	Staining methods of cytoplasmic granules (mast cells, chromaffin)									Mast cells staining									
8										Giemsa staining									
9	Stair	ning i	metho	ods of	fats a	nd lipid	ls		Fa	Fat staining									
10						hydrate /cogen		ł	An	Amyloid and glycogen staining									
11				ods of um, ur		ents an ystal)	d min	erals	Ca	Calcium and urate crystals staining									
12				ods of siderir		ents an)	d min	erals	Iro	n stair	ning								
13										rve fib	ers sta	ining							
14	Staining methods of bacteria and fungi (acid fast organisms, Gram, fungi)									Bacteria and fungi staining									
22 Activit	Textbooks, References and/or Other Materials: es									Histological and Histochemical Technics (Davenpo 1960, W.B.Saunders Comp, Philadelphia) Manual of Histologic Staining Methods of the Arme Forces Institute of Pathology (Luna, L.G., 1969, Mo Hill Book Comp, London) <u>Theory and Practice of Histological Techniques (Ba</u> Number Duration (hour) Total Load						e Armed 69, McG <u>ues (Bar</u>	Graw- hcroft, Vork		
Theore	tical								1	4	,		1.00	1.00 14.00					
Practica	als/La	abs							1	4			2.00			28.00			
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Field St	tudies	3							C)			0.00				0.00		
Finalee	ar Exams 1									100.00				0.00			0.00		
Others	rs									0			4.00				40.00		
Einal Exams Contribution of Term (Year) Learning Activities to									0.0	0			40.00						
Total Work Load													5.00						
	Totसी।ଏହାରେ Pople အြahExam to Success Grade ECTS Credit of the Course									0.00				5.00					
															ľ	5.00			
Measur Course	1							d in th	е										
24	EC1	rs /	WO	RKL	OAD	TAB	LE												
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1	5	5	4	3	5	5	4	5	5	5	0 4	5	4	3 0	0	0	0		
ÖK2	5	5	4	3	5	5	4	5	5	5	4	5	4	0	0	0	0		
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ÖK3	5)	4	3	5	5	4	5	5	5	4	5	4	0	0	0	0		

ÖK4	5	4	3	5	5	4	5	5	5	4	5	4	0	0	0	0
ÖK5	5	4			5				-		5			0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 Iow		3	3 Medium		4 High			5 Very High				