	HISTOPATH	lOLO	GICAL TECHNIQUES						
1	Course Title:	HISTOP	ATHOLOGICAL TECHNIQUES						
2	Course Code:	VPT5003							
3	Type of Course:	Optional							
4	Level of Course:	Second (Cycle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	2.00							
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.	GÜRSEL SÖNMEZ						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	gursels@uludag.edu.tr, 224 2941303, Uludağ Üniv. Veteriner Fak Patoloji Anabilim Dalı Görükle Kampüsü 16059 BURSA							
17	Website:	http://saglikbilimleri.uludag.edu.tr							
18	Objective of the Course:	To teach students the fixation, decalcification, processing of tissues, preparation of sections and staining methods for histopathological examination							
19	Contribution of the Course to Professional Development:	Provides knowledge and skills about pathology laboratory techniques.							
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 staininethod						
		5	The student learns special staining techniques						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
\\/	Theoretical	Co	ourse Content:						
vveek 1	Theoretical Preparation of tissues (fixation)		Practice Proportion and application of fivative colutions						
2	Preparation of tissues (fixation) Preparation of tissues (decalcification	າ)	Preparation and application of fixative solutions Preparation and application of decalcifying solutions						
3	Processing of tissues (dehydration, d	*	Dehydrating, clearing and embedding in paraffin of tissues						
	paraffin embedding)								
4	Preparation of sections		Preparation of sections						

		UALIFICATIONS							
25 CONTRIBUTION		RNING OUTCOI	MES TO PROG	RAMME					
24 ECTS / WORK LOAD TABLE		Undergraduate Edu	ucation.						
Measurement and Evaluation Techniques U Course	sed in the	the Rules & Regula	tions of Bursa Ulu						
ECTS Credit of the Course				5.00					
Total work hot the Course	е	100.00		5.00					
Total Work Load				150.00					
inal Exams Contribution of Term (Year) Learning Activiti	es to	o do	40.00	40.00					
Others		10	4.00	40.00					
Victern exams	1	100.00	0.00	0.00					
Field Studies	0	0	0.00	0.00					
Rigipots	0	0.80	0.00	0.00					
Homeworks	R	0	0.00	0.00					
Practicals/Labs Sensitudy and preperation	INUMBE	14 WĘIĢHT	2.00	28.00					
Theoretical		14	2.00	28.00					
FI			0.00	` ,					
Activites		Number	Duration (f	Load (hour)					
 Activites		Theory and Practice of Histological Techniques (Bancroft, Number Duration (hour) Total Work							
		Forces Institute of Pathology (Luna, L.G., 1969, McGraw-Hill Book Comp, London)							
Materials:		1960, W.B.Saunders Comp, Philadelphia) Manual of Histologic Staining Methods of the Armed							
Textbooks, References and/or Other	r			ics (Davenport, H.A.,					
fast organisms, Gram, fungi)	.g. (aoid	- actoria aria rangi							
(astrocytes, nerve fibers)14 Staining methods of bacteria and fur	ngi (acid	Bacteria and fungi	staining						
13 Staining methods of nerve cells and	fibers	Nerve fibers stainir	g						
12 Staining methods of pigments and m (cooper, hemosiderin, iron)	ninerals	Iron staining							
Staining methods of pigments and m (biluribin, calcium, urate crystal)	ninerals	Calcium and urate	crystals staining						
10 Staining methods of carbohydrates a mucoproteins (amyloid, glycogen)		Amyloid and glycogen staining							
9 Staining methods of fats and lipids		Fat staining							
8 Staining methods of hematologic an elements	d nuclear	Giemsa staining							
7 Staining methods of cytoplasmic gra (mast cells, chromaffin)		Mast cells staining							
6 Staining methods of connective tissu (collagen, keratin, mucin, muscle)		Connective tissue staining							
and Eosin methods)									
5 Routine staining procedur and Eosin methods)	es (Hemat	es (Hematoxylin	es (Hematoxylin Routine Hematoxyl	res (Hematoxylin Routine Hematoxylin and Eosin staini					

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	4	3	5	5	4	5	5	5	4	5	4	0	0	0	0
ÖK2	5	4	3	5	5	4	5	5	5	4	5	4	0	0	0	0

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