PATHOLOGY OF DIGESTIVE SYSTEM DISEASES

1	Course Title:	PATHOLOGY OF DIGESTIVE SYSTEM DISEASES	
2	Course Code:	VPT5009	
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):	1.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	VET1003 Histology I, Vet 1004 Histology II	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. M.MÜFIT KAHRAMAN	
15	Course Lecturers:	Prof. Dr. M. Özgür ÖZYİĞİT Doç. Dr. Ahmet AKKOÇ	
16	Contact information of the Course Coordinator:	mufitk@uludag.edu.tr Uludağ Ünv. Veteriner Fak. Patoloji Anabilim Dalı mufitk@uludag.edu.tr Department of Pathology, Faculty of Veterinary Medicine, Uludag University	
17	Website:	http://homepage.uludag.edu.tr/~mufitk/	
18	Objective of the Course:	To teach students the aetiological factors and mechanisms underlying diseases and the appreciation, recognition and differentiation of terms degeneration, inflammation and neoplasia and also able them to proper use of these information verbally and orally.	
19	Contribution of the Course to Professional Development:	Students learn how to discuss lesions in animal diseases.	
20	Learning Outcomes:		
		1	The student learns cellular adaptation and the morphology, aetiology and results of degeneration
		2	The student learns disturbances in clotting, disturbances in blood flow and their consequences
		3	Knowledge in inflammation and inflammation types; cellular and chemical mediators of inflammation; immunological reactions is gained
		4	The student learns healing and repair, terminology and classification of them
		5	The student learns the general characteristics of tumours, aetiology, growth and classification of them
		6	The differentiation between normal and abnormal is gained
		7	The student appreciates the relationship between macroscopic and microscopic lesions
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		10	
21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	Introduction to recommended books; important terminology in pathology; disease, degeneration and reaction, aetiology and pathogenesis of diseases. Diseases at cellular level, functions of cell organelles in cellular adaptation; autophagia, heterophagia, phagocytosis, pinocytosis and endocytosis	Slides and presentations about accumulations(calcification and amyloid deposits)
2	Types of cellular adaptation (cellular atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia); definitions and macroscopic and microscopic recognition of agenesis, aplasia, atresia	Slides and presentations about cellular adaptations (hyperplasia, metaplasia)
3	Reversible and irreversible cell degenerations (degeneration and necrosis) and their recognition, pathogenesis and and macroscopic and microscopic characteristics	Slides and gross organ presentations exemplifying the types of degenerations and necrosis
4	Disturbances in blood flow (hyperaemia, haemorrhage, thrombosis) their recognition, pathogenesis and and macroscopic and microscopic characteristics	Slides exemplifying the circulatory disturbances (hyperemia, congestion, hemorrhage) and macroscopic –microscopic specimens
5	Disturbances in blood flow (ischemia, infarct, shock and oedema) their recognition, pathogenesis and and macroscopic and microscopic characteristics	Slides exemplifying the circulatory disturbances (infarcts and edema) and macroscopic –microscopic specimens
7	Cellular changes during inflammation: margination, pavementing, migration	Slides and specimens exemplifying the inflammatory cells
9	Inflammation and morphological classification. Acute-chronic-granulomatous;	Slides and specimens exemplifying the chronic and granulomatous types of inflammation
10	Immune injury and inflammation; repair	Slides and specimens exemplifying the inflammation and
12	General characteristics of benign and malignant tumours and Growth and metastasis pattern of malignant tumours and prognosis of neoplastic developments	Slides and specimens exemplifying the tumors of epithelial origin
13	Disposition in tumours, causes of tumours and mechanisms of carcinogenesis	Slides and specimens exemplifying the tumors of mesenchyme origin
14	Local and systemic effects of tumours, treatment principals in tumours (surgical treatment, radiotherapy, chemotherapy, hormonal and immunotherapy).	Slides and specimens exemplifying the tumors of mesenchyme origin

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	7.00	98.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	1	2.00	2.00
Final Exams	1	7.00	7.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

22	Textbooks, References and/or Other Materials:	1-Mechanisms of Disease, Slauson DO, Cooper BJ; Mosby, 3rd Ed., 2002 2- Tumours in Domestic Animals, Meuten, JD. Iowa State Press, 2001 3- Pathologic Basis of Disease, Cotran RS, Kumar V, Collins T.: WB Saunders 1999 4- Veteriner Genel Patoloji Erer, H., Kıran, M. M., Çiftçi, M. K., 2000, Konya
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	2	10.00
Home work-project	0	0.00
Final Exam	1	50.00
Total	4	100.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.

24 ECTS / WORK LOAD TABLE

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	3	5	4	2	1	1	1	3	4	3	3	4	4	0	0
ÖK2	5	3	5	4	2	1	1	1	3	4	3	3	4	4	0	0
ÖK3	4	3	5	5	5	4	4	3	3	3	3	3	4	4	0	0
ÖK4	5	5	5	5	5	2	4	3	3	3	3	3	4	4	0	0
ÖK5	5	5	5	5	4	2	2	3	3	4	3	3	4	4	0	0
ÖK6	5	5	5	5	5	2	4	3	3	4	3	3	4	5	0	0
ÖK7	4	5	5	4	5	2	4	3	3	4	3	3	5	4	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**