	HORSE ANA		Y AND PHYSIOLOGY							
1	Course Title:	HORSE	ORSE ANATOMY AND PHYSIOLOGY							
2	Course Code:	AAAZ101								
3	Type of Course:	Compulsory								
4	Level of Course:	Short 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 face								
14	Course Coordinator:	Prof. Dr. DENİZ SEYREK-İNTAŞ								
15	Course Lecturers:	Prof. Dr. Ayşe SERBEST, Yard. Doç. Dr. Füsun (AK) SONAT								
16	Contact information of the Course Coordinator:	Prof. Dr. Deniz Seyrek İntaş U.Ü. Veteriner Fakültesi Hayvan Hastanesi Cerrahi Anabilim Dalı, Görükle Yerleşkesi 16059 Görükle / Nilüfer, BURSA e-mail: denizsi@uludag.edu.tr Tel. 0224 294 08 36								
17	Website:	http://mennanpasinli.uludag.edu.tr/								
18	Objective of the Course:	It is aimed to provide the student with fundamental knowledge about basic equine anatomical terminology, morphological properties of body systems from cell to organs and systems including functional mechanisms as far as it is required for equitation and horseback riding.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	The student knows general anatomical terminology and is able to understand the names, directions and descriptions of body regions, organs and tissues in horses.							
		2	The student is aware of the morphological properties of the modern horse, its place in the zoological systematics and morphological evolution.							
		3	The student learns the cell structure, its physiology and comprehends changes such as disease and aging							
		4	The student knows the morphology and functions of the musculoskeletal system, physiology of movement (muscles, tendons-ligaments, bone and joint functions, biomechanics of the hoof) and their effect on sport performance							
		5	The student knows basic structures and functional mechanisms of horses' digestive, respiratory, urogenital and circulatory systems and is aware of their effect on sport performance							
		6	The student knows the morphology and physiology of reproductive organs and has a general idea about the functions of other endocrine systems and their influence on organ systems in horses							

		7	The student knows the morphology and functions of the central and peripheral nervous system and their effect on tissues and organs									
		8	The student understands the morphology, special properties and physiology of the sensory organs and their role in equestrian sports									
		9										
		10										
21	Course Content:											
Week	Theoretical		Practice									
1	Classification, structure and functions cell physiology	s of cells,	Microscopy in the lab, investigation of images of different cell types and cell organelles									
2	Evolution of the horse, morphologica changes and the reasons for it, prope the modern horse, constitution	l erties of	Demonstration of anatomical structures on a live horse									
3	Physiology of motion (gait types, tem striated muscle function, flexion-exter biomechanics of the hoof, classificati functions of muscles/ tendons/ ligame joints.	pos, nsion, on and ents and	Video films and/or live demonstration of motion physiology, gait types and tempos in the manege.									
4	Musculoskeletal anatomy of the hors (bony skeleton and joints – head, boo extremities)	e -1 dy and	Anatomy laboratory (investigations on the skeleton)									
5	Musculoskeletal anatomy of the hors	e - 2	Anatomy laboratory (study on cadaver: dissection of									
Activit	es			Number	Duration (hour)	Total Work Load (hour)						
Theore	feactions, mechanisms, morphology	and		14	2.00	28.00						
Practic	als/Labs			14	2.00	28.00						
Self studytaked pligestiation bsorption, and excretion)				but the digestive syste	sign 50	49.00						
Homew	vorks			0	0.00	0.00						
Project	horses (oral cavity, salivary glands,	115 111	about the digestive system)									
Field S	tudies			14	3.00	42.00						
Midtern	Rexams Peysiology and morphology of the ur	inary	Δ	1 natomy laboratory (stu	1.00 dv. op. cadaver / slid	1.00 es/videos						
Others				0	0.00	0.00						
Final E	(kidneys, ureter, urinary bladder, uret	thra)	•	1	2.00	2.00						
Total W	/ork Load					150.00						
Total w	ምዕብሮቭቃት,3ዎዙንsiology and morphologi	cal	А	natomy laboratory (stu	dy on cadaver / slid	бsMdeos						
ECTS	Credit of the Course					5.00						
12	Reproductive physiology, other endo organ systems (adrenal glands, pituit gland, pancreas etc) functions, femal male reproductive organ morphology	crine tary le and	Anatomy laboratory (study on cadaver / slides/videos about the male and female reproductive system)									
13	Functions, properties and morpholog sensory organs (skin and epidermal structures, eyes, ears, nose, tongue)	y of	Aı at	Anatomy laboratory (study on cadaver / slides/videos about the sensory organs)								
14	temperature, respiration/pulse/heart rate, intestinal sounds/frequency, conjunctiva/mucosa, lymph nodes), behavioural signs and alterations of physiological parameters in the sick horse											

22	Text Mate	extbooks, References and/or Other laterials:								 The equine distal limb. An Atlas of Clinical Anatomy and Comparative Imaging, Denoix J.M, Manson Publishing/The Veterinary Press, 2002. Praxisorientierte Anatomie und Propädeutik des Pferdes Wissdorf H, Gerhards H, Huskamp B, Deegen E, 3. baskı, M&H Schaper Verlag, 2010; ISBN: 978-3-7944-0216-8. Atlas der Anatomie des Pferdes, Röck S, Budras KD, Schlütersche Verlag; 6. baskı, 2008, ISBN-10: 3899930436, ISBN-13: 978-3899930436. Anatomie des Pferdes. Hertsch B, FN Verlag, 5. baskı, 2012. 								
23 Assesment									_									
TERM LEARNING ACTIVITIES NUMBE							EWE	WEIGHT										
Midtern	n Exa	am					-		35.00									
Quiz							-		15	15.00								
Home v	work-	proje	ect				()	0.0	0.00								
Final E	xam						-		50	50.00								
Total		· -						3	10	0.00								
Contribution of Term (Year) Learning Activities to Success Grade							50	50.00										
Contrib	ution	of F	inal E	xam to	Suc	cess G	rade		50	50.00								
Total									10	100.00								
Measurement and Evaluation Techniques Used in the Course							ie											
24	EC	TS /	WO	RK L	OAD	TAB	LE											
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	2	2	3	1	5	2	4	1	5	2	1	2	1	0	0	0	0	
ÖK2	2	2	2	2	4	4	4	1	5	2	1	2	1	0	0	0	0	
ÖK3		1	5	2	4	4	3	1	5	2	1	2	1	0	0	0	0	
ÖK4	-	1	4	2	5	3	5	1	5	2	1	2	1	0	0	0	0	
ÖK5		1	3	3	3	4	3	1	3	2	1	2	1	0	0	0	0	
ÖK6	ŕ	1	3	2	2	5	2	1	2	2	1	2	1	0	0	0	0	
ÖK7		1	3	3	4	2	3	1	3	2	1	2	1	0	0	0	0	
ÖK8	ŕ	1	5	4	4	2	5	1	3	2	1	2	1	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																		
Contrib 1 very low ution Level:			2 low 3 M			Medi	edium 4 High			5 Very High								