HOOF HEALTH AND SHOEING TECHNIQUES I

1	Course Title:	HOOF HEALTH AND SHOEING TECHNIQUES I
2	Course Code:	AAAZ207
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	3.00
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:	Dr. Ögr. Üyesi GÜLŞEN GONCAGÜL
15	Course Lecturers:	Prof. Dr. Deniz Seyrek İntaş, Doç. Dr. Nureddin Çelimli
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 0836
17	Website:	http://mennanpasinli.uludag.edu.tr/
18	Objective of the Course:	To provide basic knowledge about hoof health, hoof care and prevention of hoof disorders in sport and working horses and to establish a fundament of knowledge and skills on preparing horse shoes and shoeing techniques.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Knows how to work interdisciplinary, consults and communicates successfully with veterinary surgeons
	2	Is aware of the prerequisites for a good farriery workplace, distinguishes and knows properties of farrier tools and instruments
	3	Is good at science of materials and knows how to process them
	4	Knows and applies horse shoes and alternative hoof protectors for sound horses
	5	Is able to perform hoof care in foals and mature horses and knows how to take measures to prevent hoof disorders
	6	Is able to perform diagnostic hoof trimming and takes the anatomy and biomechanics of the hoof and foot of the horse into account
	7	Knows and evaluates horses' leg and hoof conformation, axis and gaits
	8	Is able to evaluate leg conformation, gait and lameness before and after shoeing, recognizes faulty hoof wear and bad horn quality
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Relations between farrier and veterinary surgeon	Visit a smithy (technical excursion)
2	Smithy types: Stationary and mobile smithies and their properties, smithy tools and equipment required for forging and preparing a horse shoe	Introduction and demonstration of use and function of smithy tools and equipment
3	Science of materials: classification, iron and steel, aluminium, synthetic materials, glues, combustible material, additional materials, processing techniques	Material processing techniques
4	Shoe types (normal and special shoes, parts of the shoe) hoof nails, nail free protectors (mobile shoes, easy-glue shoes etc.)	Investigation of different shoe types
5	Functional anatomy of the foot (bones, muscles, tendons, ligaments, joints, fascia etc.) structure of the hoof (horn capsule, weight-bearing surface, pododerma, linea alba, blood vessels and nerves)	Studying hoof anatomy on a phantom
6	Leg conformation (evaluation of fore and hind limbs from the front, side and back)	Evaluation of leg conformation on live horses
7	Foot conformation (normal and faulty stance, correction of faulty stance), bad hoof conformation/deformation, causes and consequences, foot axis	Evaluation of hoof and foot conformation and quality on live horses
8	Motion of the horse (gait types and tempi depending on breed and use etc.)	Video about the influence of conformation and body type on gaits
9	Evaluation of the gait (phases of a normal stride, gait faults and abnormalities, factors influencing horn elasticity, biomechanics of the hoof	Evaluation of the gait in live horses
10	lameness (classification, appearance and recognition)	Video about lameness diagnosis
11	Hoof care in foals and young horses (structure of a foal hoof and its correction) limb conformation faults and angular limb deformities (hyperflexion, hyperextension etc.)	Hoof care, cleaning and trimming on in vitro material
12	Hoof care in mature horses (regular, periodical hoof care, special hoof care and trimming), normal and faulty horn wear and growing, horn quality and factors affecting it	Hoof care, cleaning and trimming on in vitro material
13	Evaluation of a horse presented for shoeing: standing, during motion and evaluation after completion of shoeing	Observation of the shoeing procedure
14	Phases and technique of shoeing in a sound horse: holding of the horse, removing the old shoe, hoof trimming, adaptation of the shoe to the hoof, application of the nails	Observation of the shoeing procedure

22	Textbooks, References and/or Other Materials:	- Der Huf. Lehrbuch des Hufbeschlags. Litzke LF, Rau B (Ed.) EnkeVerlag Stuttgart, 6.baskı, 2012, 978-3-8304-1074-4. - The equine distal limb. An Atlas of Clinical Anatomy and Comparative Imaging, Denoix J.M, Manson Publishing/The Veterinary Press, 2002. - Farbatlas Huf, Anatomie und Klinik, Pollitt Ch. (Budras K-D, Hertsch B), Schlütersche, Berlin, 1999. - Diagnosis and management of lameness in the horse, Ross MW, Dyson SJ, Saunders, Elsevier, St. Louis, 2003 - Equine sports medicine and surgery, Hinchclif KH, Kaneps AJ, Geor RJ, Saunders, 2004 - The Horse Shoeing Book, Humphrey M, J.A. Allen & Co. Ltd., London, 1995.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	35.00
Quiz	1	5.00
Home work-project	1	10.00
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		

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	1.00	14.00
Homeworks	1	7.00	7.00
Projects	0	0.00	0.00
Field Studies	10	1.00	10.00
Midterm exams	1	1.00	1.00
Others	1	1.00	1.00
Final Exams	1	1.00	1.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

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	5	3	5	1	3	3	5	5	5	5	5	0	0	0	0

ÖK2	5	5	3	4	1	3	3	5	5	5	5	5	0	0	0	0
ÖK3	4	5	2	3	1	2	3	5	2	4	5	3	0	0	0	0
ÖK4	5	5	4	5	1	4	1	5	2	5	5	5	0	0	0	0
ÖK5	5	5	4	5	1	5	2	5	5	5	5	5	0	0	0	0
ÖK6	5	5	2	5	4	5	2	5	4	5	4	5	0	0	0	0
ÖK7	5	5	3	5	4	5	2	5	4	4	4	5	0	0	0	0
ÖK8	5	5	2	4	4	5	2	5	4	4	4	5	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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