

# 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:	Prof. Dr. DENİZ SEYREK-İNTAŞ
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:	<a href="http://mennanpasinli.uludag.edu.tr/">http://mennanpasinli.uludag.edu.tr/</a>
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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<b>21</b>	Course Content:		
	<b>Course Content:</b>		
<b>Week</b>	<b>Theoretical</b>	<b>Practice</b>	
<b>1</b>	Relations between farrier and veterinary surgeon	Visit a smithy (technical excursion)	
<b>2</b>	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	
<b>3</b>	Science of materials: classification, iron and steel, aluminium, synthetic materials, glues, combustible material, additional materials, processing techniques	Material processing techniques	
<b>4</b>	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	
<b>5</b>	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	
<b>6</b>	Leg conformation (evaluation of fore and hind limbs from the front, side and back)	Evaluation of leg conformation on live horses	
<b>7</b>	Foot conformation (normal and faulty stance, correction of faulty stance), bad hoof conformation/deformation, causes and consequences, foot care	Evaluation of hoof and foot conformation and quality on live horses	
<b>Activites</b>		<b>Number</b>	<b>Duration (hour)</b>
			<b>Total Work Load (hour)</b>
<b>8</b>	Evaluation of the gait (phases of a normal stride, gait faults and abnormalities, factors influencing gait)	14	2.00
<b>Practicals/Labs</b>		14	2.00
<b>Self study and preparation</b>		14	1.00
<b>10</b>	Lameness (classification, appearance and diagnosis)	Video about lameness diagnosis	14.00
<b>Homeworks</b>		1	7.00
<b>11</b>	Hoof care in foals and young horses (structure of a foal hoof and its correction)	Hoof care, cleaning and trimming on in vitro material	0.00
<b>Field Studies</b>		10	1.00
<b>Midterm exams</b>		1	1.00
<b>Others</b>		1	1.00
<b>Final Exam</b>		1	1.00
<b>Total Work Load</b>			90.00
<b>13</b>	Evaluation of a horse presented for shoeing: completion of shoeing	Observation of the shoeing procedure	3.00
<b>ECTS Credit of the Course</b>			3.00
<b>14</b>	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	

<b>22</b>	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.
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<b>23</b>	Assesment
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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		

<b>24</b>	<b>ECTS / WORK LOAD TABLE</b>
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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			