



**NEAR EAST UNIVERSITY**  
**Faculty of Veterinary Medicine Course Teaching Plan**

1.	<b>Name of the Course</b>	FOOT DISEASES and SHOEING TECHNIQUES
2.	<b>Course Code</b>	VTE449
3.	<b>Course Type</b>	Selective
4.	<b>Course Level</b>	Undergraduate
5.	<b>Year</b>	4
6.	<b>Semester/Term</b>	Fall, 7VET
7.	<b>ECTS credits</b>	2
8.	<b>National Credits</b>	2
9.	<b>Theory (hours/week)</b>	1h/week
10.	<b>Practice (hours/week)</b>	2h/week
11.	<b>Prerequisites</b>	None
12.	<b>Other Recommended Considerations for the Course</b>	None
13.	<b>Course Language</b>	English
14.	<b>Teaching type</b>	Face to face
15.	<b>Course Coordinator</b>	Prof. Dr. Deniz SEYREK-İNTAŞ
16.	<b>Other Lecturers</b>	None
17.	<b>Coordinator's Contact Information</b>	Near East University, Faculty of Veterinary Medicine Surgery Department, Nicosia / TRNC Cell phone: 0532 856 49 12, e-mail: deniz.seyrekintas@neu.edu.tr
18.	<b>Website of the course</b>	-
19.	<b>Objectives of the Course</b>	It is aimed to provide basic information about the definition, aetiology, pathogenesis, clinical presentation, diagnosis, differential diagnosis, prognosis and treatment of foot diseases in horses, large and small ruminants, and normal and orthopaedic / therapeutic shoeing in horses.
20.	<b>Contribution of the Course to Professional Development</b>	Owing to the information given in this course, the student contributes to the country's economy by taking necessary measures in the prevention of economic losses due to foot diseases in farm animals, prophylaxis of foot diseases and treatment on the basis of herd health. Similarly, since foot health and shoeing play a very important role in the performance of sports horses, important steps can be taken in this sector in terms of animal welfare and economic losses with the information provided by this course.

<b>21.</b>	<b>Students' Learning Outcomes</b>	<b>LO1</b>	Will be able to understand related concepts / theories
		<b>LO2</b>	Will be able to discuss the validity of related concepts / theories
		<b>LO3</b>	Will be able to discuss possible real-life applications of related concepts / theories and offer suggestions
		<b>LO4</b>	Will be able to apply relevant concepts / theories to real life / other given situations / cases
		<b>LO5</b>	Will be able to critically analyse the real-life applications of related concepts / theories
		<b>LO6</b>	Will be able to synthesize different concepts and theories to create their own unique approaches
		<b>LO7</b>	Will be able to develop an original approach to related concepts
		<b>LO8</b>	Preparation for presentation(s)
		<b>LO9</b>	Will be able to evaluate their own work according to the given criteria
		<b>LO10</b>	Will be able to develop / create a new approach
		<b>LO11</b>	Will be able to carry out the given work independently
		<b>LO12</b>	Will be able to work in a group on a given topic
		<b>LO13</b>	Will be able to enumerate and explain related concepts
		<b>LO14</b>	Will appreciate the value of learning
		<b>LO15</b>	Will be able to develop targeted skills

<b>21.</b>	<b>Course Content</b>	<b>WEEK</b>	<b>THEORETICAL COURSE CONTENT</b>	<b>PRACTICE CONTENT</b>
		<b>1.</b>	General Introduction, features and anatomy of normal horse's hoof, hoof function, physiology, mechanics, periodic care	Investigations on hoof anatomy
		<b>2.</b>	Different shoeing techniques and knowledge about different types of horseshoes, features of the equipment and tools used by the farrier, how to perform the shoeing procedure and issues to be considered	Observation of the horse shoeing procedure
		<b>3.</b>	Common exostoses in the front and hind limbs and feet of horses, Ringbone, frog caries – narrow heels - sheared heels: (recognition of the problem, symptoms, first aid measures, treatment, shoeing, care and follow-up during recovery, preventive measures)	Farm visit (limb conformation, foot conformation/postures, gaits, hoof shapes, etc.)
		<b>4.</b>	Laminitis in horses-1 (definition, aetiology, pathogenesis, diagnosis, clinical systemic, local and functional symptoms of laminitis)	Hoof dissection-1
		<b>5.</b>	Laminitis in horses-2 (First aid measures in laminitis, various medical and surgical treatment methods, orthopaedic shoeing, care and follow-up during the recovery period)	Hoof dissection-2

		<b>6.</b>	In horses, penetrating foreign bodies, puncture wounds and pressure wounds, hoof abscess: (Comparative definitions, aetiology, clinical symptoms, first aid measures, operative treatment, orthopaedic shoeing methods, care and follow-up during recovery)	Hoof dissection (hoof surgery- demonstration-1)
		<b>7.</b>	Classification, aetiology, symptoms, diagnosis, treatment of hoof cracks in horses, orthopaedic shoeing methods, care and follow-up during the recovery period, preventive measures	Hoof dissection (hoof surgery- demonstration-2)
		<b>8.</b>	The importance of bovine foot diseases, economic losses and their causes, functional anatomy of the foot in cattle, features and anatomy of the normal bovine claw, the function of the claw, its mechanics, the weight bearing surface of the claw	Investigations on claw anatomy
		<b>9.</b>	Diagnosis and grading of lameness in cattle, normal and faulty and excessive horn growth, deformed claw structures, reasons, periodic foot care in cattle, purposes, trimming and correction of the claw (tools used, equipment and technique used to detect animals, different claw cutting techniques) and application technique of dressings and blocks	Farm visit (diagnosis and evaluation of the prevalence of claw diseases)
		<b>10.</b>	Causes, symptoms, diagnosis, treatment, prognosis and prevention of most frequently encountered infectious foot and claw diseases (such as phlegmona digitalis, limax, digital dermatitis, interdigital dermatitis / heel erosion) in cattle	Farm visit (claw trimming and bandage/dressing application)
		<b>11.</b>	Most frequently encountered infectious foot and claw diseases (acute-chronic-subclinical laminitis, sole ulcer and related diseases) causes, symptoms, diagnosis, treatment, prognosis, measures to be taken and prevention.	Claw trimming practice on abattoir material - 1
		<b>12.</b>	Protective and curative foot baths in cattle: how to prepare and apply, important points to be considered, properties, advantages and disadvantages of different chemicals/antiseptics	Claw trimming practice on abattoir material - 2

		<b>13.</b>	Foot care, claw trimming, foot diseases, treatment and prevention in sheep and goats	Farm visit (claw diseases in sheep)
		<b>14.</b>	Veterinarian - Farrier Relations	Topic repetition, Q & A
<b>22.</b>	<b>Textbooks, References and/or Other Sources</b>	<ol style="list-style-type: none"> <li>1. Adams' Lameness in Horses, Ted S. Stashak, 5th Ed, Lippincot Williams &amp; Wilkins, 2002.</li> <li>2. Cattle lameness and hoofcare, An Illustrated Guide. Roger William Blowey, Edition 2, Old Pond, 2008. ISBN: 1905523289, 9781905523283</li> <li>3. The equine distal limb. An Atlas of Clinical anatomy and comparative Imaging, Denoix J.M, Manson Publishing/The Veterinary Press, 2002.</li> <li>4. Farbatlas Huf, Anatomie und Klinik, Pollitt Ch. (Budras K-D, Hertsch B), Schlütersche, Berlin, 1999.</li> <li>5. Diagnosis and management of lameness in the horse, Ross MW, Dyson SJ, Saunders, Elsevier, St. Louis, 2003.</li> <li>6. Equine sports medicine and surgery, Hinchclif KH, Kaneps AJ, Geor RJ, Saunders, 2004.</li> <li>7. The Horse Shoeing Book, Humphrey M, J.A. Allen &amp; Co. Ltd., London, 1995.</li> </ol> <p>UZEM also provides links to some useful information and videos that can be found on the internet.</p>		

<b>23.</b>	<b>Evaluation</b>	<b>SEMESTER STUDIES</b>	<b>NUMBER</b>	<b>PERCENTAGE OF CONTRIBUTION</b>
		Midterm exam	1	40
		Quiz	-	-
		Assignments, Performances	-	-
		Final exam	1	60
		Total	2	100
		Evaluation Approaches	Exams are made in written form as multiple choice and/or classic (short answer) questions.	

<b>24.</b>	<b>ECTS / Student's workload</b>	<b>Activity</b>	<b>NUMBER</b>	<b>Time [hours]</b>	<b>Total workload [hours]</b>
		Class hours (theoretical)	14	1	14
		Practical hours	14	2	28
		Out of Class Study Time (Pre-study, reinforcement)	14	1	14
		Assignments, Performances	-	-	-
		Projects	-	-	-
		Field studies	-	-	-
		Midterm exams	1	2	2
		Other	-	-	-
		Final exams	1	2	2
		Total workload			60

		Total workload / 30 hours			60/30
		ECTS credits of the lecture			2