

ΠΕΡΙΓΡΑΜΜΑ ΜΑΘΗΜΑΤΟΣ

COURSE LAYOUT

1. GENERAL

SCHOOL	Animal Biosciences		
DEPARTMENT	Animal Science		
STUDY LEVEL	Undergraduate – Compulsory		
COURSE CODE	0019	SEMESTER	8 th
COURSE TITLE	Diseases of Farm Animals		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS
Theory		3	
Laboratory Training		3	
		6	6
COURSE TYPE	Scientific Field		
PREREQUISITES	--		
LANGUAGE	Greek (English for Erasmus students)		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	Yes		
COURSE WEB PAGE	http://openeclass.aua.gr/courses/EZPY140/		

2. LEARNING OUTCOMES

Learning Outcomes

The specific course is focused at the main microbial and parasitic diseases of farm animals, especially of those characterised as zoonotic, in connection to their aetiology, pathogenesis, clinical manifestation and control.

Upon successful completion, it is expected that the student will have acquired a satisfactory level of knowledge regarding:

- Microbial and parasitic diseases of farm animals
- Their impact on animal production and public health
- The principles that govern the measures applicable for their control

With regards to Bloom the student will be able to:

1. Understand the aetiology, pathogenesis, symptoms and measures of prevention of the main microbial and parasitic diseases of farm animals [KNOWLEDGE]
2. Understand the principles of their diagnostic investigation [KNOWLEDGE]
3. Comprehend the clinical indications of infectious diseases [COMPREHENSION, APPLICATION]
4. Combine theoretical knowledge and practical training for the analysis of the scientific information that is available internationally, in connection to the field of infectious diseases of animals [ANALYSIS]

General Competences

- Investigate, analyse and compose data and information, using the appropriate technical means
- Autonomous work

- Decision making
- Team work
- Promote free, creative and constructive thinking

3. COURSE CONTENT

A. THEORY

1. Introduction to the Infectious Diseases of Animals

- Impact of infectious diseases and terminology
- Predisposing factors to infectious diseases
- Host-pathogen interaction
- Microbial flora, disease and health
- Epigenetics
- Laboratory diagnostic investigation of infectious diseases
- Control of infectious diseases

2. Bacterial Diseases

Aetiology, Pathogenesis, Clinical manifestation, epizootiology, epidemiology, diagnosis, control and prevention of the following diseases: Tuberculosis, Brucellosis, Paratuberculosis, Anthrax, Salmonellosis, Enterotoxaemia, Colibacillosis, Listeriosis, Mycoplasmosis.

2. Viral Diseases

- Introduction to Virology, Classification of viruses
- Biological characteristics and diseases caused by viruses of the Families Picornaviridae, Reoviridae, Togaviridae, Alphaviruses, Flaviviruses, Rhabdoviridae, Retroviridae, Orthomyxoviridae, Paramyxoviridae, Coronaviridae, Arteriviridae.

3. Parasitology and Parasitic Diseases

- Veterinary Parasitology: Types and classification of parasites, types of hosts, life cycles, infections induced by parasites, pathogenesis of parasitic diseases, parasites and public health.
- Endoparasites and Endoparasitoses. Nematode parasites and parasitic diseases: Morphology, life cycle, pathogenesis, clinical manifestation, pathology, diagnosis, prevention.
- Trematodes, Cestodes and Coccidia: Morphology, life cycle, pathogenesis, clinical manifestation, pathology, diagnosis, prevention.
- Ectoparasites and Ectoparasitoses, Arthropods: Strategies of prevention at farm level.

B. LABORATORY AND CLINICAL TRAINING

1. Animal anatomy and principles of clinical examination.
2. Basic principles of propedeutic pathology.
3. Methodology of clinical examination of animals.
4. Clinical handling of productive animals, collection of samples.
5. Assessment of individual indicators of health and welfare.
6. Health of the udder: Methodology of clinical diagnostic investigation of cases of mastitis.
7. Basic principles of vaccination .
8. Administration of therapeutic substances and vaccines to productive animals.
9. Use of ultrasound for the evaluation of the Reproductive System of sheep and goats, and assessment of pregnancy.
10. Diagnostic approach, therapeutic treatment and prevention of lameness in small ruminants.

4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	Face-to-face Distant learning through the Eclass platform and MS Teams	
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	<ul style="list-style-type: none"> • PowerPoint presentations and Internet (literature, visual training material) • E-learning platform http://zp.aua.gr/el/content/eA/virtual • Communication by e-mail and e-class • Lectures available through e-class platform. 	
TEACHING ORGANISATION	Activities	Workload per semester
	Lectures	Non-supervised study 60
	Practical training	Lectures 25
	Clinical training	Practical training 20
	Research essay	Clinical training 20
	Mock exams	Research essay 15
	<i>Field trip</i>	Mock exams 5
		Field trip 5
	Total	150
STUDENT EVALUATION	<p>Student evaluation consists of 2 parts:</p> <p>Written and practical examination, the latter corresponding to the syllabus of the laboratory exercises.</p> <p>Students are encouraged to retain on voluntary basis, a Personal Evaluation Booklet (PEB), in which the tutor records the score of the essays undertaken by the student and any other achievement. The scores recorded in the PEB can only benefit the student (the PEB score cannot have a negative impact on the final score). The use of the PEB</p>	

	<p>score is applicable each time the student sits the exam for the course.</p> <p>Detailed instructions for the use of PEB and the course examination are available from the beginning of the semester through e-class, and they are explained in class.</p> <p>Written and/or oral essays that are assigned on voluntary basis, on subjects relevant to the course and of interest to the student (subjects are defined after discussion with the tutor).</p> <p>Scores are recorded in PEB (PEB score), in the form of a percentage and can be up to 50% of the score corresponding to written examination, if higher than 4, and is added to the latter, formulating the final score.</p> <p>The evaluation of Erasmus students relies on essays and an oral examination conducted face-to-face after the presentation of each essay.</p>
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5. BIBLIOGRAPHY

-Books:

The Merck Veterinary Manual

-Scientific Journals:

Veterinary Microbiology, Veterinary Parasitology, Veterinary Science