Veterinary Pharmacology [331]

COURSE OUTLINE

(1) GENERAL

SCHOOL	ANIMAL BIOSCIENCES		
ACADEMIC UNIT	DEPARTMENT OF ANIMAL SCIENCE		
LEVEL OF STUDIES	Undergraduate [Major Elective]		
COURSE CODE	**331**	**SEMESTER**	**7th**
COURSE TITLE	VETERINARY PHARMACOLOGY		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
Theory and laboratory courses	3	2
Total	**3**	**2**

COURSE TYPE	Scientific area
PREREQUISITE COURSES:	-
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS:	Yes
COURSE WEBSITE (URL):	https://oeclass.aua.gr/eclass/courses/5070/
TEACHING STAFF:	John Ikonomopoulos (Course supervisor)

(2) LEARNING OUTCOMES

Learning outcomes

Upon successful completion of the course, students will be able (according to Bloom) to:

- Explain and demonstrate understanding of the mechanisms of drug action and their interactions with target cells, tissues, and biological systems (**Knowledge / Comprehension**).
- Correctly use pharmacological terminology and apply proper drug nomenclature (**Knowledge / Application**).
- Identify, evaluate, and select the appropriate routes of drug administration for different cases (**Analysis / Evaluation / Application**).
- Recognize and describe the pharmaceutical forms in which drugs are available (**Knowledge / Comprehension**).
- Identify, describe, and assess possible adverse effects of drugs (**Knowledge / Analysis / Evaluation**).
- Apply correct drug administration practices to prevent residues, including adherence to withdrawal periods (**Application / Evaluation**).
- Evaluate the significance of rational drug use and its implications for public health when misapplied (**Analysis / Evaluation**).

General Competences

- Investigate, analyse and compose data and information, using the appropriate technical means
- Autonomous work
- Decision making
- Team work
- Promote free, creative and conductive thinking

(3) SYLLABUS

1. Introduction to Pharmacology
2. Drugs of the Autonomic Nervous System
3. Antimicrobials – Antibiotics
4. Antiseptics – Disinfectants 5. Antiparasitic Agents
6. Anti-inflammatory Drugs
7. Drugs as Growth Promoters
8. Pharmacological Control of Reproduction

(4) TEACHING and LEARNING METHODS - EVALUATION

<table>
<tr><td>DELIVERY</td><td>Face-to-face</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</td><td>• 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 the e-class platform</td></tr>
<tr><td>TEACHING METHODS</td><td>
<table>
<tr><th>Activity</th><th>Semester workload</th></tr>
<tr><td>Lectures</td><td>50</td></tr>
<tr><td>Individual study</td><td>25</td></tr>
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<tr><td>Course total (25 h of workload per ECTS)</td><td>75</td></tr>
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<tr><td>STUDENT PERFORMANCE EVALUATION</td><td>The examination is conducted through questionnaires consisting of randomly selected questions from a database, via the E-class platform.
A grading bonus system is applied to the written examination score, based on the student's in class performance, as well as the grade of the voluntarily undertaken research essay.
The criteria of the bonus and student evaluation system are posted and continuously accessible to students through the Eclass platform.
Erasmus students are examined during the scheduled meetings and in written form at the end of the course.</td></tr>
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(5) ATTACHED BIBLIOGRAPHY

- Ioannis Pappas Veterinary Pharmacology (2022) Neon Publications.
- Brander GC. (1991).Veterinary Applied Pharmacology & Therapeutics W.B. Saunders Riviere, J and Papich M.
- Veterinary Pharmacology and Therapeutics(2009) John Wiley & Sons Walter H. Hsu.
- Handbook of Veterinary Pharmacology (2013) John Wiley & Sons.
- MSD Veterinary Manual. https://www.msdvetmanual.com/
- Journal of Veterinary Pharmacology and Therapeutics. https://onlinelibrary.wiley.com/journal/13652885