

THERAPEUTICS

Study program	Veterinary Medicine
Year of study	VI
Semester	I
Regime of discipline	DOB
Category	Dsc
Number of lectures hours per week	1
Number of seminar/laboratory/project hours per week	1
Total number of hours according to the curriculum: lectures/seminars/laboratory/project	14/14
Number of transferable credits	2

SPECIFIC SKILLS

Professional Competence	Using pharmacology notions in correct and responsible drug prescribing for animals. General Therapeutics study provides the student the fundamental principles for the selection, use and combination of therapeutic techniques and linking them to drugs used for treating different diseases. They accumulate information on the main techniques and new therapeutic directions (allopathy, homeopathy, phytotherapy, aromatherapy, acupuncture and electro acupuncture, physiotherapy techniques etc.).
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LEARNING OUTCOMES

Knowledge	Using basic pharmaceutical criteria to determine the efficacy, toxicity validity and preservation of veterinary medicinal products. Implementing a scheme of control for a deposit of drugs, pharmacy, pet shop etc., and appropriate therapeutic schemes for animals.
Skills	Knowing the most appropriate therapeutic techniques and groups of drugs used in therapy for animals, sorted by therapeutic type/class and their major indications.
Responsibility and autonomy	To apply and promote responsible use of techniques and medicinal products to ensure adequate therapy for animals to protect the food chain, the environment and man.

COURSE OBJECTIVES

General objective of the course	To apply and promote responsible use of techniques and medicinal products to ensure adequate therapy for animals to protect the food chain, the environment and man.
Specific objectives	Creating the ability to choose and use the most appropriate therapeutic techniques / species of animals.

COURSE CONTENT

LECTURES	Number of hours
1. The main therapeutic techniques: <i>principles of allopathy for animals</i> The main therapeutic techniques: <i>principles of homeopathy for animals</i>	1
2. The main therapeutic techniques: <i>phytotherapy and aromatherapy principles for animals</i> The main therapeutic techniques: <i>principles of acupuncture, electro acupuncture and moxa for animals.</i>	1
3. The main therapeutic techniques: <i>principles of physiotherapy, electrotherapy, magneto therapy and laser therapy for animals</i>	1
4. The main therapeutic techniques: <i>principles of thermotherapy, cryotherapy, oxygen therapy, hydrotherapy and heliotherapy for animals.</i> The main therapeutic techniques: <i>principles of diet therapy, radiation therapy and psychotherapy for animals.</i>	1
5. The main therapeutic aspects in medication for organ systems/species: <i>Antibacterial and antiviral medication. Antiparasitic medication for animals.</i>	1
6. The main therapeutic aspects in medication for organ systems/species: <i>CNS and VNS medication. Antihistamines. Cardiovascular and blood medications for animals.</i>	1

7. The main therapeutic aspects in medication for organ systems/species: <i>Respiratory system medication. Gastrointestinal system medication for animals.</i>	1
The main therapeutic aspects in medication for organ systems/species: <i>Urinary system medication. Endocrine system medication for animals.</i>	
Total	7

SEMINAR/LABORATORY	Number of hours
1. Review of pharmaceutical calculations	2
2. Review of pharmaceutical prescriptions	2
3. The principles of allopathy for animals: principles of homeopathy in animals. Discussion, examples, presentation of materials.	2
4. The principles of phytotherapy and aromatherapy for animals The main therapeutic techniques: principles of acupuncture, electro acupuncture and moxa for animals. Discussions and didactic movies.	2
5. Principles of physiotherapy, electrotherapy, magneto therapy and laser therapy for animals. Discussions and didactic movies.	2
6. Principles of thermotherapy, cryotherapy, oxygen therapy, hydrotherapy and heliotherapy for animals. Principles of diet therapy, radiation therapy and psychotherapy for animals. Discussions and didactic movies.	2
7. Antibacterial and antiviral medication. CNS and VNS medication. Antihistamines. Cardiovascular and blood medications for animals. Discussions, presentations and didactic movies.	2
Total	14

BIBLIOGRAPHY:

- Cristina R.T., Eugenia Dumitrescu Elemente de farmacie pentru medicii veterinari, Brumar, Timisoara 2013.
- Cristina R.T., P.A. Darău. Biotehnologii farmaceutice și Industrializarea medicamentului de uz veterinar. Vasile Goldiș Univ. Press, Arad. ⁹⁷³⁻⁶⁶⁴⁻⁰⁷²⁻⁸ 2005.
- Cristina R.T. ⁽²⁰⁰⁴⁾ Bazele farmacologiei veterinare. Brumar, Timișoara, ^{973-9295-78-9,}
- Cristina R.T., Boboloacă I. Suport de curs electronic. Biotehnologii farmaceutice și Industrializarea medicamentului de uz veterinar. Ediția a II-a Impact Media ^{Timișoara 978-973-7996-24-4} 2008.
- R.T. Cristina. Introducere în farmacologia și farmacia veterinară , Solness Timișoara, 2006 ^{(10) 973-729-064-X; 1; (13) 978-973-729-064-9}
- R.T. Cristina, Teușdea V. Ghid de farmacie și terapeutică veterinară, Brumar Timișoara, 2008 ⁹⁷⁸⁻⁹⁷³⁻⁶⁰²⁻³⁵⁴⁻⁵
- R.T. Cristina, Viorica Chiurciu. Elemente de farmacovigilenta si toxicovigilenta in medicina veterinara
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- Cristina R.T., Eugenia Dumitrescu, Teușdea V. Dicționar bio-medical. Impact Media Timișoara. ⁹⁷⁸⁻⁹⁷³⁻⁷⁹⁹⁶⁻²¹⁻³ 2007.
- Pop Pavel, R.T. Cristina (1995, 1996) Dermatologie medicală - veterinară Mirton Timișoara, ⁹⁷³⁻⁵⁷⁸⁻⁰²⁵⁻⁹
- R.T. Cristina (Head editor). Issues of Journal *Medicamentul veterinar / Veterinary drug* ^{1843-9527,}
- Plumb D.C. Veterinary drug handbook, Ed. Blackwell publishing, 6 Edition, 2008
- H.R. Adams, Veterinary pharmacology and therapeutics, Ed Iowa State, 8 ed., University Press, 2001
- Riviere, J.E., Papich, M.G. Veterinary pharmacology & therapeutics. Ed. Blackwell publishing, 2009
- Dumitrescu Cristina R.T. (2013) Agroprint Timisoara. Farmacie veterinară-lucrări practice,
- Cristina R.T. Receptură, Calcul și Interacțiuni în Medicina Veterinară. Sedona Timișoara, 973-9345-42-5, 2003.
- Cristina R.T. Ghid de dozaj și teste de Farmacologie veterinară. Ed. 1 and 2. Brumar Timișoara 973-8057-46-9, 973-602-020-7 2004
- Cristina R.T., P.A. Darău Practicum de farmacologie și terapie veterinară. Vasile Goldiș Univ. Press, Arad. 973-664-071-X 2005
- Cristina R.T. Elemente de farmacovigilență și toxicovigilență în medicina veterinară. Brumar Timisoara. 2010
- R.T. Cristina - Courses on-line: <http://ro.veterinarypharmacon>

ASSESSMENT

Activity type	Assessment criteria	Assessment methods	Percentage of final grade
Lectures	The concepts learned in the course will be evaluated at the end.	The concepts learned in the course will be assessed through written colloquium.	70%
Seminar/laboratory/clinical sessions	Checks should highlight the degree of assimilation (theoretical and practical) of	The concepts learned in the laboratory will be evaluated monthly by	25%

	the work done by student.	written or oral verification.	
Projects/reports	Bibliographic type essays / Semester	One applied bibliographic essay / Semester	5%

Course coordinator: Prof. Dr. Cristina T. Romeo

Practical activities coordinator L/S/P: Prof. Dr. Cristina T. Romeo