

Full Title:	Pharmacology
Language of Instruction:	English
Module Code:	PHAR S7005
Credits:	5
Valid From:	Semester 1 - 2013/14 (September 2013)
Module Delivered in	1 programme(s)
Module Description:	This module provides students with fundamental principles of pharmacology and pharmacokinetics, including factors that affect the absorption, distribution, metabolism and excretion of drugs. It will also provide students with knowledge of the mechanisms of action and potential side effects of many of the important groups of drugs commonly used in veterinary medicine.
Learning Outcomes:	
<i>On successful completion of this module the learner should be able to</i>	
<ol style="list-style-type: none"> 1. Examine the core pharmacological principles of pharmacokinetics and pharmacodynamics. 2. Discuss the basic physiology of selected organ systems and explain how drugs can be used to treat pathophysiological conditions that affect them. 3. Evaluate the fundamental mechanism of action of selected drug types used in veterinary medicine. 4. Recognise the potential adverse effects induced by selected drugs. 5. Critically evaluate and deliver an oral presentation on the therapeutic treatment of a disease encountered in veterinary practice. 	

Module Content & Assessment

Indicative Content

Content

Principles of Pharmacology; Drugs used in nervous system disorders; Drugs used in cardiovascular system disorders; Drugs used in gastrointestinal disorders; Drugs used in respiratory system disorders; Drugs used in endocrine disorders; Anti-infective drugs; Drugs used to relieve pain and inflammation; Cytotoxic drugs & Nutraceuticals.

Assessment Breakdown

	%
Course Work	50.00%
End of Module Formal Examination	50.00%

Full Time

Course Work

Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Presentation	Students will be assigned to groups of four. Each group of students will deliver an oral presentation that outlines the treatment of a particular disease state. The presentation will include details on the underlying causes of the disease and the pharmacological basis of its treatment, including the intended mechanism of action and potential side effects of the drugs used.	2,3,4,5	25.00	0	0	Week 6	0
Essay	Students will complete a 1,500 word essay that examines the fundamental principles of pharmacology & pharmacokinetics. A sample essay title is as follows; Discuss the advantages and disadvantages of oral and intravenous routes of drug administration and how the route of administration can affect bioavailability.	1,3,4	25.00	0	0	Week 3	0

No Project

No Practical

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Formal Exam	End of semester final examination	1,2,3,4	50.00	0	0	End-of-Semester	0

Reassessment Requirement

A repeat examination

Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

DKIT reserves the right to alter the nature and timings of assessment

Module Workload & Resources

Workload: Full Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	3.00	Every Week	3.00
Tutorial	No Description	1.00	Every Week	1.00
Independent Study	Library work, additional reading, exam revision and CA preparation	3.00	Every Week	3.00
Total Weekly Learner Workload				7.00
Total Weekly Contact Hours				4.00

This course has no Part Time workload.

Resources

Recommended Book Resources

Walter H Hsu 2008, *Handbook of Veterinary Pharmacology*, 1 Ed., Wiley Blackwell Iowa, USA [ISBN: 0813828376]

Humphrey P. Rang, James M. Ritter, Rod J. Flower and Graeme Henderson. 2015, *Rang & Dale's Pharmacology*, 8th Ed., CHURCHILL LIVINGSTONE / Elsevier USA [ISBN: 0702053627]

Bill, Robert L. 2016, *Clinical Pharmacology and Therapeutics for the Veterinary Technician*, 4th Ed., Elsevier Health Sciences [ISBN: 97803230867]

This module does not have any article/paper resources

Other Resources

Link: *Library Catalogue*
<http://tinyurl.com/n3lzmtg>

Module Delivered in

Programme Code	Programme	Semester	Delivery
DK_SVETN_7	Bachelor of Science in Veterinary Nursing	4	Mandatory