

University of Pretoria Yearbook 2016

Advanced fundamentals of pharmacology 876 (FAK 876)

Qualification	Postgraduate
Faculty	Faculty of Veterinary Science
Module credits	30.00
Programmes	MSc Option: Ruminant Health (Coursework) MSc Option: Veterinary Epidemiology (Coursework) MSc Veterinary Industrial Pharmacology (Coursework) MVeterinary Medicine Bovine Medicine (Coursework) MVeterinary Medicine Cattle Herd Health MVeterinary Medicine Laboratory Animal Science MVeterinary Medicine Pharmacology MVeterinary Medicine Pig Herd Health MVeterinary Medicine Poultry Diseases (Coursework) MVeterinary Medicine Small Stock Herd Health MVeterinary Medicine Veterinary Public Health (Coursework) MVeterinary Medicine Wildlife Diseases
Prerequisites	No prerequisites.
Language of tuition	English
Academic organisation	Paraclinical Sciences
Period of presentation	Year

Module content

Scope and historical development of veterinary pharmacology.
Veterinary pharmaceuticals and formulation theory.
Pharmacokinetic theory, pharmacokinetic analysis and modelling.
Bioequivalence theory and evaluation.
Physicochemical and molecular basis of drug action.
Dose response and calculation of dose response parameters.
Pharmacological modulation of organ and body functions.
Molecular basis of action and pharmacological effects of chemotherapeutic agents.
Adverse drug reactions, interactions and pharmacovigilance.
Comparative species pharmacology, pharmacogenomics and pharmacogenetics.
Background on complementary medicines.
Fundamentals of pharmacological research.

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