



University of Pretoria Yearbook 2022

Advanced fundamentals of pharmacology 876 (FAK 876)

Qualification	Postgraduate
Faculty	Faculty of Veterinary Science
Module credits	40.00
NQF Level	09
Programmes	MSc (Veterinary Industrial Pharmacology) (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	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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