

University of Pretoria Yearbook 2022

Animal breeding 320 (TLR 320)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	12.00
NQF Level	07
Programmes	BScAgric (Animal Science)
Prerequisites	GTS 261 GS
Contact time	2 lectures per week, fortnightly practicals
Language of tuition	Module is presented in English
Department	Animal Science
Period of presentation	Semester 2

Module content

Single gene, major genes and polygenes. Sources of variation, population parameters and the estimation thereof. Introduction to matrix algebra for application in animal breeding. Selection indices theory. Statistical models in estimation of breeding values. Animal recording systems and international guidelines for evaluation. Variation in traits of economic importance and statistical description. Use of genetic variation. Application of breeding values and prerequisites for accuracy. Principles of breeding systems.

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