

University of Pretoria Yearbook 2022

Applied plant anatomy 741 (BOT 741)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	15.00
NQF Level	08
Programmes	BScHons Medicinal Plant Science BScHons Plant Science
Prerequisites	BOT 161 or permission from the Head of Department.
Contact time	Block of 4 weeks for lectures with practical compo
Language of tuition	Module is presented in English
Department	Department of Plant and Soil Sciences
Period of presentation	Semester 1 or Semester 2

Module content

Theory of plant anatomy, understanding of basic tissue types and arrangement within organs. Evolutionary modifications to the basic anatomy. Introduction to seed anatomy/palynology. Understanding of developmental anatomy – ontogeny of tissues/organs. Advantages/disadvantages of different stains/techniques. Microscopy, including electron microscopy. Ethics and protocols of image manipulation. Practical understanding of tissue preservation, staining and sectioning techniques will be learnt and a portfolio of evidence submitted for assessment.

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