



University of Pretoria Yearbook 2022

Cell and tissue techniques 316 (ANA 316)

Qualification	Undergraduate
Faculty	Faculty of Health Sciences
Module credits	18.00
NQF Level	07
Programmes	BSc (Medical Sciences)
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	ANA 226; Only for BSc (Medical Sciences) students.
Contact time	1 practical per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Anatomy
Period of presentation	Semester 1

Module content

General introduction to light and electron microscopic techniques: fixation, processing, imbedding, staining. Principles of different staining techniques for LM and EM: routine stains, proteins, carbohydrates, amino acids, metachromasia, immunocytochemistry, lectin stains, specialised stains. Principles of the operation of LM and EM: general LM, fluorescent microscopy, differential contrast microscopy, dark field microscopy, phase contrast microscopy, transmission and scanning electron microscopy.

NOTE: This module is not open to all students and may only be taken by BSc (Medical Sciences) students.

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