

University of Pretoria Yearbook 2018

Cell and tissue techniques 316 (ANA 316)

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| Qualification | Undergraduate |
| Faculty | Faculty of Health Sciences |
| Module credits | 18.00 |
| Programmes | BSc Medical Sciences |
| Service modules | Faculty of Natural and Agricultural Sciences |
| Prerequisites | ANA 226 |
| 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.

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