

# University of Pretoria Yearbook 2020

## Applied plant anatomy 741 (BOT 741)

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| <b>Qualification</b>          | Postgraduate                                                                             |
| <b>Faculty</b>                | <a href="#">Faculty of Natural and Agricultural Sciences</a>                             |
| <b>Module credits</b>         | 15.00                                                                                    |
| <b>Programmes</b>             | <a href="#">BScHons Medicinal Plant Science</a><br><a href="#">BScHons Plant Science</a> |
| <b>Prerequisites</b>          | BOT 161 or permission from the Head of Department.                                       |
| <b>Contact time</b>           | Block of 4 weeks for lectures with practical compo                                       |
| <b>Language of tuition</b>    | Module is presented in English                                                           |
| <b>Department</b>             | Department of Plant and Soil Sciences                                                    |
| <b>Period of presentation</b> | 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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