

## University of Pretoria Yearbook 2019

## Algebra 731 (WTW 731)

**Qualification** Postgraduate

Faculty of Natural and Agricultural Sciences

Module credits 15.00

**Programmes** BScHons Mathematics

BScHons Mathematics and Mathematics Education Algebra and Analysis

**Prerequisites** Algebra on third-year level

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Mathematics and Applied Mathematics

Period of presentation Semester 1

## **Module content**

The following topics will be covered: Galois theory and solving equations by radicals, introduction to the theory of R-modules, direct sums and products, projectivity and injectivity, finitely generated modules over Euclidean domains, primary factorisation, applications to Jordan and rational canonical forms of matrices.

The information published here is subject to change and may be amended after the publication of this information. The **General Regulations** (**G Regulations**) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the **General Rules** section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.