



University of Pretoria Yearbook 2016

Finite element analysis 863 (WTW 863)

Qualification Postgraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 30.00

Programmes [MSc Applied Mathematics](#)

[MSc Mathematics](#)

Prerequisites Finite element method and Functional analysis at honours level

Contact time 1 lecture per week

Language of tuition English

Academic organisation Mathematics and Applied Maths

Period of presentation Semester 1 or Semester 2

Module content

*Consult with the Head of the Department of Mathematics and Applied Mathematics about the availability of this master's module in a particular year.

Finite element interpolation theory. Finite element approximation of elliptic boundary value problems and eigenvalue problems. Finite element approximation of parabolic and hyperbolic initial value problems. Applications in a project.

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.