

# 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.

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