

University of Pretoria Yearbook 2016

Sobolev spaces 880 (WTW 880)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	30.00
Programmes	MSc Applied Mathematics MSc Mathematics
Prerequisites	Measure theory, Differential equations and Functional analysis on honours level
Contact time	1 lecture per week
Language of tuition	English
Academic organisation	Mathematics and Applied Maths
Period of presentation	Semester 1

Module content

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

Mathematics about the availability of this masters module in a particular year. The module focuses on the Hilbertian Sobolev spaces as well as to their applications to elliptic boundary value problems. Topics to be discussed include: Distributions; Sobolev spaces of positive and negative integer orders; Sobolev spaces of traces; Embeddings of Sobolev spaces; Boundary value problems.

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