University of Pretoria Yearbook 2017

Convergence spaces 812 (WTW 812)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	0.00
Prerequisites	Topology, Measure Theory and Functional Analysis on honours level
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Academic organisation	Mathematics and Applied Maths
Period of presentation	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.
Filters. Convergence of filters, sequences and nets in a topological space. Convergence structures, basic properties and constructs. Continuous convergence, c-embedded convergence spaces. Order convergence on lattices and posets. Convergence vector spaces and completions. Continuous convergence and duality on locally convex spaces. The Hahn-Banach theorem in convergence spaces.