

University of Pretoria Yearbook 2017

Homogenisation of partial differential equations 836 (WTW 836)

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| Qualification | Postgraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 0.00 |
| Prerequisites | Functional Analysis, Measure Theory, Partial Differential Equations at 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 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.

Review of functional analysis, Sobolev spaces and variational problems; rapidly oscillating function; periodic composite materials; homogenisation of elliptic problems; multiple scale method; two-scale convergence and applications.

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