

University of Pretoria Yearbook 2017

Mathematics and mathematical literacy education 730 (MCE 730)

Qualification Postgraduate

Faculty [Faculty of Education](#)

Module credits 16.00

Programmes [BEdHons Assessment and Quality Assurance in Education and Training](#)

[BEdHons Mathematics Education](#)

[BEdHons Teacher Education and Professional Development](#)

Service modules Faculty of Natural and Agricultural Sciences

Prerequisites No prerequisites.

Language of tuition Module is presented in English

Academic organisation Science, Maths + Techno Ed

Period of presentation Semester 1 or Semester 2

Module content

Perspectives in the teaching and learning of mathematics. This module will focus on contemporary issues in mathematics education such as: Types of mathematical knowledge in teacher education; learning theories in mathematics education; use of technology in the teaching of mathematics; classroom research; gender; language; culture (Ethno mathematics). Mathematics in context: prospects and challenges. This module also focuses on the role of mathematics in different contexts (including vocational and real life contexts): Nature of mathematics – mathematics as a human activity; rationale for learning mathematics; the theory of realistic mathematics education; content-driven and context-driven approach in mathematics; mathematical literacy; knowledge ‘transfer’: some challenges – school mathematics vs real world.

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