

University of Pretoria Yearbook 2018

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 BScHons Mathematics and Mathematics Education Algebra and Analysis BScHons Mathematics and Mathematics Education Applied Analysis BScHons Mathematics and Mathematics Education Differential Equations and Modelling
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Science Mathematics and Technology Education
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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