



University of Pretoria Yearbook 2019

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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