

# University of Pretoria Yearbook 2020

## Mathematics and mathematical literacy education 730 (MCE 730)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Education</a>
<b>Module credits</b>	16.00
<b>Programmes</b>	<a href="#">BEdHons Assessment and Quality Assurance in Education and Training</a> <a href="#">BEdHons Mathematics Education</a> <a href="#">BScHons Mathematics and Mathematics Education Algebra and Analysis</a> <a href="#">BScHons Mathematics and Mathematics Education Applied Analysis</a> <a href="#">BScHons Mathematics and Mathematics Education Differential Equations and Modelling</a>
<b>Service modules</b>	Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Science Mathematics and Technology Education
<b>Period of presentation</b>	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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