

# University of Pretoria Yearbook 2021

## Educational research methodology 745 (NMQ 745)

**Qualification** Postgraduate

**Faculty** Faculty of Education

**Module credits** 16.00

**NQF Level** 08

**Programmes** BEdHons

BEdHons Assessment and Quality Assurance in Education and Training

BEdHons Computer-integrated Education

BEdHons Education Management, Law and Policy

BEdHons Educational Psychology

BEdHons Learning Support

BEdHons Life Sciences Education

BEdHons Mathematics Education

BEdHons Physical Sciences Education

BEdHons Teacher Education and Professional Development

BEdHons Technology Education

BScHons Mathematics and Mathematics Education Applied Analysis

BScHons Mathematics and Mathematics Education Differential Equations and Modelling

BScHons Mathematics and Mathematics Education Algebra and Analysis

**Language of tuition** Module is presented in English

**Department** Science Mathematics and Technology Education

**Period of presentation** Semester 1

### Module content

The nature of educational enquiry: contexts of research, research ethics, truth, rationality, subjectivity and objectivity; Quantitative and qualitative modes of enquiry, research designs and data collection techniques. Various approaches to qualitative research including case study research, historical research, ethnographic research, and action research. Basic concepts and principles of quantitative research. Statistical techniques in the educational research process. Survey methodology and questionnaire design. Classification and graphical representation of data. Descriptive measures. Statistical inference. Data-processing procedures. Parametric versus non-parametric tests. Some test statistics (e.g. F-Test and T-test). Formulating a research methodology for a limited project.



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