

University of Pretoria Yearbook 2022

Educational research methodology 745 (NMQ 745)

Qualification	Postgraduate
Faculty	Faculty of Education
Module credits	16.00
NQF Level	08
Programmes	BEdHons (Teacher Education and Professional Development) 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 Technology Education BScHons (Mathematics and Mathematics Education) (Algebra and Analysis) BScHons (Mathematics and Mathematics Education) (Applied Analysis) BScHons (Mathematics and Mathematics Education) (Differential Equations and Modelling)
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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