University of Pretoria Yearbook 2020

Educational research methodology 745 (NMQ 745)

Qualification	Postgraduate
Faculty	Faculty of Education
Module credits	16.00
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 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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