

University of Pretoria Yearbook 2022

Psychometrics 804 (PSY 804)

Qualification	Postgraduate
Faculty	Faculty of Humanities
Module credits	10.00
NQF Level	09
Prerequisites	DS (Research Psychology)
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Psychology
Period of presentation	Year

Module content

This module will demonstrate the process of test development from the perspective of Classical Test Theory (CTT) and Item Response Theory (IRT). Students are introduced to measurement theory, which includes an overview of measurement philosophy, true score theory, reliability, validity, item selection and use of statistical software. The specific IRT model constitutes the Rasch model allowing inspection of item fit, multidimensionality, bias, and related topics. Students are introduced to Winsteps and related software to enable them to do item calibration and IRT analysis. A brief introduction to how multidimensionality of tests can be assessed with Structural Equation Modeling (SEM) will also be included.

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