

# Kursplan

för kurs på forskarnivå

**Psykometri**

**Psychometrics**

**7.5 Högskolepoäng**

**7.5 ECTS credits**

**Kurskod:**

PS3FMO2

**Gäller från:**

VT 2023

**Institution**

Psykologiska institutionen

## Förkunskapskrav och andra villkor för tillträde till kursen

Research Methods 1, Psychology Master Program at Stockholm University, or previous knowledge corresponding to this course.

## Lärandemål

To achieve a passing grade the student must be able to define validity and reliability and evaluate psychological assessments for specific measurement purposes.

## Innehåll

Psychological testing is a central part of both research and practice. The essence of testing evaluation lies in the terms 'validity' and 'reliability', which have been discussed in psychological research for over 100 years.

The course focuses on the theory and techniques supporting various forms of psychological measurement and assessment, with the main theories being psychometric models based on classical test theory (CTT) and item response theory (IRT). The course covers exploratory factor analysis (EFA), confirmatory factor analysis (CFA), and different reliability coefficients depending on the psychometric models used.

## Obligatoriska moment

All seminars are obligatory.

## Examinationsformer

The course is examined by an individually written empirical paper in APA style.

The paper should include a definition of validity and reliability and an evaluation of a psychological assessment process that targets specific measurement purposes. The study should address an important reliability and/or validity problem in the student's own research field.

The paper should include an introduction with a theoretical rationale for the definitions of reliability and validity used in alignment with the student's own research field, empirical results that answer the research question based on CTT and/or IRT, and a discussion of the advantages and disadvantages of using the chosen model(s).

The R code (or other code used) should be reported in the appendix.

The written paper should be uploaded on Athena by a date given at the beginning of the course. The examiner will provide written feedback within two weeks, and the students will then have two weeks to rewrite the paper.

The examiner will provide individual grades (Pass/Fail) to each student based on the final version of the paper.

### **Arbetsform**

Seminars.