

Degree programme Master of Science in Health Sciences 17 th Module 2 nd Semester (Part B)	
Name of module	Instrument Development and Validation
Module responsible	Prof. Dr. Joachim Westenhofer
Lecturer	Prof. Dr. Joachim Westenhofer
Semester	Summer Semester (March - August)
Status	Optional (Part B), at least 4 Modules from Part B
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CP)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	Basic knowledge in statistics and empirical social research
Max. Participants	25
Language	English
<p>Objectives</p> <p>The aim of the lecture is to enable students to construct and evaluate research instruments with regard to appropriate quality criteria.</p> <p>Development of competencies (<i>Professional, Technical, Methodological</i>)</p> <p>The student can obtain following competencies:</p> <ul style="list-style-type: none"> • Describing and evaluating the quality criteria assessment instruments used in social and health research, • Constructing assessment instruments for qualitative and quantitative research, and assessing and evaluate their appropriateness, • Assessing the psychometric properties of assessment instruments, • Performing calculation of psychometric parameters using appropriate software. <p>Personal and social skills</p> <p>The student is able to:</p> <ul style="list-style-type: none"> • Apply the acquired knowledge and skills in the context of different disciplines, • Work in teams and groups, 	

- Present results of the own work,
- Write a scientific paper.

Content of module

- Quality criteria for instruments: objectivity, reliability and validity
- Different types of questions and ratings
- Scales and subscales
- Questionnaire construction
- Interviews: types of interviews (structured, semi-structured) and construction of interview guidelines
- Assessment of reliability and validity; principles of classical testing theory; basics of item response theory
- Planning, conducting and evaluating pilot tests
- Planning, conducting and evaluating validation studies

Related module

-none-

Teaching and Learning Strategies/ Methodology/ Media

Lecture, group work with presentation of result, practical in the application of PC-Software

Assessment(s)

Written assignment

Literature/ Working material

Lord & Novick: Statistical theories of mental test scores. Addison-Wesley, 1974.

Materials and articles on the E-learning-Platform

Literature Recommended to students who read German:

Lienert & Raatz: Testaufbau und Testanalyse. Beltz, 1994.