

**Module description**

Module title	PSYCH-MA-PFM-17: Applied Data Analysis in Psychology
Subject	Psychological Methodology
Associated degree	Master of Science (M.Sc.)
Module coordinator	Prof. Dr. Christof Schuster Christof.Schuster@psychol.uni-giessen.de
Frequency and duration	Winter and summer semester (2 semester course, 1.5h per week)
Language of instruction	English
Examination	presentations, essay, report or written examination
ECTS	10 (for full 2 semester module; partial module = 5)
Prerequisites	none
Learning outcomes	Students will learn the fundamentals of modern statistical analysis. They will gain fundamental skills that will ensure the appropriate application of the methods learned in the course to substantive research questions. In addition, students will learn to use modern statistics software to complete the calculations required so they can apply them in practice.
Module content	Methods of applied statistics which are part of the following models: • structural equation modelling (SEM) • hierarchical linear modelling (HLM) • general linear models (for example, logistic regression, survival analysis)