Psychologie und Sportwissenschaft



Module description

Module title	PSYCH-MA-PFM-05: Psychophysics and Movement analysis
Subject	General Psychology
Associated degree	Master of Science (M.Sc.)
Module coordinator	Prof. Dr. Karl Gegenfurtner Karl.Gegenfurtner@psychol.uni-giessen.de
Frequencey and duration	Winter and summer (2 semester course, 1.5h per week)
Language of instruction	German or English
Examination	Presentation and reports
ECTS	10 (for full 2 semester module; partial module = 5)
Prerequisites	none
Learning outcomes	 The students learn the most commonly used experimental paradigms of Psychophysics and Movement analysis. learn to plan and run experiments, including experimental design, stimulus generation and data collection. learn to evaluate the collected data, including pre-processing of raw data, data visualization and modelling.
Module content	 Controlled presentation of visual stimuli, incl. image histogram and power spectrum manipulation, binocular stimulation. Psychophysical methods Measurement and assessment of eye movement (saccades, pursuit, fixational) Measurement and assessment of hand movements (grasping, reaching, free scribbling)