Module title | PSYCH-MA-GM-04: Developmental Neuroscience
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Subject | Developmental Psychology
Associated degree | Master of Science (M.Sc.)
Module coordinator | Prof. Dr. Gudrun Schwarzer
| Gudrun.Schwarzer@psychol.uni-giessen.de
Frequency and duration | Winter and summer
| (2 semester course, 1.5h per week)
Language of instruction | German
Examination | Essay or presentation
ECTS | 10 (for full 2 semester module; partial module = 5)
Prerequisites | none
Learning outcomes | Students will
| • Learn to think critically about various theories and models of human development
| • Gain detailed knowledge of the research methods used in childhood neuropsychology
| • Learn about childhood syndromes and disorders related to sensorimotor abilities, perception, cognition, and emotion
| • Gain in-depth knowledge of key treatment and support methods for relevant childhood developmental disorders which draw on fundamentals from the discipline
Module content | • Neuropsychological fundamentals of sensorimotor, perceptual, cognitive, and emotional development
| • Findings in developmental plasticity
| • Research methods for childhood neuropsychology, electroencephalography (EEG), eye tracking, heart rate analysis, functional MRI (fMRI)
| • Planning, implementation, and data analysis of neuropsychological studies of different age groups
| • Age-dependent psychological task analysis
| • Developmental syndromes and disorders
| • Relevant methods of diagnosing developmental disorders of sensorimotor abilities, perception, cognition, and emotion
| • Support measures for sensorimotor abilities, perception, cognition, and emotion which are based on fundamentals from the discipline