inf971 - Fundamental Competences in Psychology II: Introduction to Cognitive Neuroscience

Module label: Fundamental Competences in Psychology II: Introduction to Cognitive Neuroscience
Module code: inf971
Credit points: 6.0 KP
Workload: 180 h
Used in course of study:
- Master's Programme Engineering of Socio-Technical Systems > Fundamentals/Foundations
Contact person:
- Module responsibility: Christiane Margarete Thiel
- Authorized examiners: Die im Modul Lehrenden

Entry requirements:
This module provides students without any prior knowledge in biological psychology with basic knowledge on the neurobiology of sensory and cognitive functions which is especially relevant for later modules on brain-computer interfaces. It therefore provides an introduction to basic concepts of neurobiological foundations of sensory, motor and cognitive functions.

Skills to be acquired in this module:
- Professional competences: The students will be able to understand basic concepts of neurobiological foundations of cognition and present these to fellow students of different backgrounds.
- Methodological competences: The students will learn to present and discuss scientific findings.
- Social competences: The students will learn to interact in a group.
- Self-competences: The students will be able to assess their own knowledge and understanding in the context of an interdisciplinary group.

Module contents:
The lecture includes the neuroanatomy of different sensory systems such as vision and audition, motor systems and higher cognitive functions. The seminar will focus on lecture topics based on the book chapters. These contents will be acquired in group work.

Reader's advisory:

Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: once a year
Module capacity: unlimited
Reference text:
This module provides students without any prior knowledge in biological psychology with basic knowledge on the neurobiology of sensory and cognitive functions which is especially relevant for later modules on brain-computer interfaces. The course provides students featuring a background in computer science with fundamental competences in psychology and related subjects. This course is not intended for students already featuring a background in psychology.

Modullevel: BC (Basiscurriculum / Base curriculum)
Modulart: Pflicht o. Wahlpflicht / compulsory or optional
Lern-/Lehrform / Type of program: V+S
Vorkenntnisse / Previous knowledge:

Examination:
- Time of examination: March
- Type of examination: Written exam

Course type:
- Lecture:
  - Comment: SWS
  - Frequency: WiSe
  - Workload attendance: 28 h
- Seminar:
  - Comment: SWS
  - Frequency: WiSe
  - Workload attendance: 28 h

Total time of attendance for the module: 56 h