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

Skills to be acquired in this module
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.

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

Links

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 (Basicscurriculum / 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

Time
Frequency
Workload attendance

Lecture
2.00
WiSe
28 h

Seminar
2.00
WiSe
28 h

Total time of attendance for the module
56 h