neu270 - Neurocognition & Psychophysics

Module label
Neurocognition & Psychophysics

Module code
neu270

Credit points
15.0 KP

Workload
450 h

Used in course of study
• Master's Programme Neuroscience > Background Modules

Contact person

Module responsibility

• Georg Martin Klump

Authorized examiners

• Alle hier genannten

Module counseling

• Christiane Margarete Thiel
• Ulrike Langemann
• Carsten Gießing

Entry requirements

Skills to be acquired in this module
Neurosci. knowlg. Expt. methods + Independent research + Scient. literature + Social skills
Interdiscipl. knowlg. Maths/Stats/Progr. + Data present./disc. + Scientific English Ethics
The aim of the module is the study of different aspects of psychophysics or neurocognition. Students participate in ongoing projects and gain a first insight into topical research.

Module contents
Students have the choice of two basic streams:
Stream 1: "Neurocognition" comprises (i) an exercise “Introduction to MATLAB” [2 SWS], (ii) a lecture “Functional MRI data analysis” [2 SWS], and (3) a practical course [5 SWS] and a seminar “Experiments on Neurocognition” [1 SWS] including aspects of planning, performance and analysis of functional neuro-imaging studies using MATLAB based software.

Stream 2 "Psychophysics of Hearing" comprises (i) exercise “Introduction to MATLAB”, (ii) lecture and seminar “The sense of hearing”, and (iii) a laboratory project in which psychoacoustical experiments into the function of the auditory system are performed.

Reader’s advisory

Links

Language of instruction
English

Duration (semesters)
1 Semester

Module frequency
jährlich

Module capacity
unlimited

Reference text
Course in the second half of the semester

Regular active participation is required to pass the module

Modulelevel
MM (Mastermodul)

Modulart
Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination

Time of examination
end of summer term

Type of examination
70% report or oral exam or written exam, 30%
presentation (talk or poster)

Course type Comment SWS Frequency Workload attendance
Lecture 2.00 28 h
Exercises 2.00 28 h
Practical 6.00 84 h

Total time of attendance for the module
140 h