



DEPARTMENT OF NEUROSCIENCE

C4F5573 Functional Cognitive Neuroanatomy, 1.5 credits (hec)

Funktionell neuroanatomi med fokus på kognition, 1,5 högskolepoäng

Third-cycle level / Forskarnivå

Approval

This syllabus is approved by the The Committee for Doctoral Education on 2023-12-13, and is valid from Spring semester 2024.

Responsible department

Department of neuroscience, Faculty of Medicine

Prerequisite courses, or equivalent

No prerequisite courses, or equivalent, demanded for this course.

Purpose & Intended learning outcomes

Purpose

This course aims to provide a basis in cognitive neuroscience and the neuroanatomy that supports it. The course will enable participants to get a good understanding of how the brain makes decisions, forms long term memories and handles emotions.

Intended learning outcomes

After the course the students should be able:

to describe the field of cognitive neuroscience

to explain how the brain can make decisions, form lasting memories and compute emotional states.

to show where in the brain and by which structures these different functions are controlled.

Course content

The course consists of theoretical sessions and practical work related to decision-making, memory formation and emotion. It will also include the neuroanatomy related to these functions using both MRI and human brains. The participants will be actively involved in group work

dealing with practical and theoretical aspects of cognitive neuroanatomy.

Forms of teaching and learning

Lectures, seminars and practical group work in the dissection room.

Language of instruction

The course is given in English.

Grading scale

Pass (G) /Fail (U)

Compulsory components & forms of assessment

Compulsory components

Lectures, seminars, group work in the dissection room and the final exam are obligatory. To compensate for absence participants will be given individual tasks that involve the respective theoretical or practical item missed.

Forms of assessment

Practical exam on neuroanatomy and oral presentation for the theoretical part.

Course literature

Recommended literature will be supplied in the form of scientific articles. An atlas of neuroanatomy is also recommended.