Kognitiv neurovetenskap: forskningspraktik A1N
Cognitive Neuroscience: Research Practice A1N
7.5 credits

Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Cognitive Neuroscience: Research Practice A1N. It comprises 7.5 credits and is on advanced level. The level of progression of the course is A1N.

Objectives
After completed course the student should be able to:

- collect cognitive neuroscience research data of adequate quality,
- analyze the collected data in an appropriate manner using relevant software,
- create simpler, and apply and revise existing, scripts in the software environment MATLAB, and
- describe how research within cognitive neuroscience depends on digitalization for continued progress.

Course Content
The course introduces research within cognitive neuroscience in practice, with a focus on the methods that are available in the laboratories at the University of Skövde (e.g. EEG/ERP). The students get to train their ability to collect high quality data, and analyze it with the help of relevant software (e.g. SPSS). In addition, they are introduced to and trained in the use of the most widely spread software environment within the field: MATLAB. As a part of this, the course also reflects over the role of digitalization within cognitive neuroscience research.

Forms of Teaching
The teaching comprises lectures and workshops. The teaching is conducted in English.

Examination
The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written assignments(^1)</td>
<td>5</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Practical examination</td>
<td>2.5</td>
<td>G/U</td>
</tr>
</tbody>
</table>

\(^1\) Determines the final grade of the course.

Admission Requirements
The prerequisite for this course is passed course KU523G Bachelor Degree Project in Cognitive Neuroscience G2E (or equivalent).

Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Cognitive Neuroscience. The course is a part of the main field of study in Cognitive Neuroscience at the University of Skövde. The disciplinary domain of the course is Natural Sciences.
Every course at the University of Skövde belongs to a subject. The division of subjects is used for follow-up and quality assurance. A main field of study is an area in which a degree can be awarded. Disciplinary domain is a division which is used by the government for the allocation of resources for studies at basic level and advanced level.

8 Approval of Course and Course Syllabus
The course was approved by the Curriculum Committee for Bioscience on 24 October 2020. This course syllabus was approved by the Curriculum Committee for Bioscience on 24 October 2020. It is valid from 1 July 2020.

9 Overlapping with Another Course
This course cannot constitute a part of a degree also containing a course the content of which is totally or partly equivalent to the content of this course.

10 Additional Information
Further information will be available on the university's website before a course is given.

National and local regulations for higher education are available on the university's website.

Upon completion of the course there will be a follow-up. The main purpose of this follow-up is to contribute to improvements of the course. The students' experiences and views constitute one of the criteria for the follow-up and are gathered by means of course evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.

11 Course Literature and Other Educational Materials

Scientific articles and other relevant materials may be added according to the teacher's instructions.