psy260 - Practical project

Module label: Practical project
Module code: psy260
Credit points: 9.0 KP
Workload: 270 h
(attendance in the lab as necessary for your project (~ 200h))

Used in course of study:
- Master’s Programme Neurocognitive Psychology > Master module

Contact person:
- Jochem Rieger
- Christoph Siegfried Herrmann
- Stefan Debener
- Jalenur Özyurt
- Andrea Hildebrandt

Module responsibility:
- Module responsibility

Module counseling:
- Riklef Weerda

Entry requirements:
Enrolment in Master’s programme Neurocognitive Psychology.

Students who start their practical projects in the summer term 2019 or later: You can only start the practical project if you have passed the exam of psy241 Computation in Neuroscience!

Students who start their practical project in the winter term 2018/19: You will only receive credits for the practical project once you have passed your psy241 exam!

Priority is given to students with experience in methods used in the respective lab or students who have taken the respective teaching modules.

Skills to be acquired in this module:

Goals of module:
Students will learn to plan, perform and analyse a study in the field of neurocognition. They will need to apply statistical knowledge and programming competencies to the data acquisition and analysis of data. Results will be related to the current neurocognitive literature and presented in a student poster symposium at the end of the module. Additionally, students should gain experience as participants in studies.

Competencies:
- ++ experimental methods
- + statistics & scientific programming
- ++ data presentation & discussion
- + independent research
- + scientific literature
- + ethics / good scientific practice / professional behavior
- + scientific communication skills
- + knowledge transfer
- + group work
- ++ project & time management

Module contents:
- The students develop an empirical investigation, carry it out and analyse the results.
- The students present and discuss their project in respect to recent literature in regular meetings and in a poster symposium.
- Students can develop an experimental design for a follow-up study which could potentially be the topic of their Master’s thesis.
- As part of the practical project, students should participate in studies of other practical projects!

Reader's advisory:

Links:

Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: The module will be offered every winter term.
Module capacity: unlimited
Reference text: Topics for projects will be presented in a colloquium at the end of the summer term.
Students can choose to perform the practical work in either of the research groups of the Department of Psychology. External projects are possible upon approval (information and approval form can be found on the programme website).

**Modullevel**
- MM (Mastermodul / Master module)

**Modulart**
- Pflicht / Mandatory

**Lern-/Lehrform / Type of program**
- Practical work and regular seminar meetings in the group where the project is performed

**Vorkenntnisse / Previous knowledge**

PLEASE NOTE:

Many projects require knowledge of either EEG, fMRI, TBS, or HCI analysis! We strongly recommend to take either psy170: Neurophysiology, psy270/275: fMRI Data Analysis, psy280: Transcranial Brain Stimulation, or psy220 Human Computer Interaction prior to the practical project.

It is expected that students show basic knowledge of Matlab programming before starting the practical project.

**Examination**

<table>
<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
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<tbody>
<tr>
<td>Seminar</td>
<td>Please select the group in which you perform your practical project.</td>
<td>2.00</td>
<td>WiSe</td>
<td>28 h</td>
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<td>Practical</td>
<td>attendance as necessary for your project (~ 200h)</td>
<td>0.00</td>
<td>WiSe</td>
<td>0 h</td>
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**Total time of attendance for the module**
- 28 h