psy210 - Applied Cognitive Psychology

Module label: Applied Cognitive Psychology
Module code: psy210
Credit points: 6.0 KP
Workload: 180 h
Used in course of study:
- Master's Programme Neurocognitive Psychology > Master module
Contact person:
Module responsibility:
- Jochem Rieger

Entry requirements:
Enrolment in Master's programme Neurocognitive Psychology.
Neuroscience students can take part on request.

Skills to be acquired in this module:

Goals of the module:
The module aims to provide an overview of theories of (Neuro)Cognitive Psychology with potential for application. It will cover core concepts of cognitive psychology, their neuronal basis, basic knowledge of neuroimaging and data analysis techniques. Special emphasis will be put on research aiming at complex real-world settings and translation of basic science into practice. Examples of successful transfers will be analyzed. Parts 1 (lecture) and 2 (seminar) will run in parallel. The lecture provides the theoretical basis. In the seminar the material is consolidated by examples from the literature will be presented and critically analyzed and discussed.

Competencies:
On completion of this module students should have a repertoire of cognitive psychology concepts relevant for real world situations, be able to transfer the learned theoretical concepts into practical contexts and evaluate potential issues arising in the process of translation.

+++ Neuropsychological / neurophysiological knowledge
++ interdisciplinary knowlde & thinking
+ experimental methods
+ scientific literature
+ ethics / good scientific practice / professional behavior
+ critical & analytical thinking
+ scientific communication skills
++ knowledge transfer

Module contents:

Part 1: (Neuro)Cognitive Psychology in the wild I (lecture)
- Neurocognitive Psychology with emphasis in real world context
- Methodological considerations: Generalization, validity of theories and research methods
- Information uptake and representation: Sensation, perception, categorization
- Selection of information and capacity: Attention and memory enhancement and failure
- Generation and communication: Language, reading, dyslexia
- Pursuing goals: Thinking, problem solving and acting

Part 2: (Neuro)Cognitive Psychology in the wild II (seminar)
- In the accompanying seminar we will work through recent examples in the literature for topics of the lecture. The goal is to apply novel knowledge from the lecture to understand and critically discuss actual research approaches.

Reader's advisory:

Links:
Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: Part 1 will be offered every summer term, part 2 every winter term.
Module capacity: 30
Modullevel: MM (Mastermodul / Master module)
Modulart: Wahlpflicht / Elective
Lern-/Lehrform / Type of program:
Part 1: 1 lecture (2 SWS),
Part 2: 1 seminar (2 SWS).

### Vorkenntnisse / Previous knowledge

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<tr>
<th>Examination</th>
<th>Time of examination</th>
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<tbody>
<tr>
<td>Final exam of module</td>
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<td>• The module will be evaluated with a written exam of 2 h duration.</td>
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<td>• bonus for a presentation and participation in discussions on other presentations in the seminar</td>
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<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
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<tr>
<td>Lecture</td>
<td>2.00</td>
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<td>SuSe</td>
<td>28 h</td>
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<tr>
<td>Seminar</td>
<td>2.00</td>
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<td>WiSe</td>
<td>28 h</td>
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**Total time of attendance for the module**

56 h