

<p><b>Degree:</b> XXX</p>
<p><b>Module H: Neurocognition</b></p>
<p><b>Goals of module:</b> The students will first acquire a general understanding of brain mechanisms of different cognitive functions and the methods used to study these functions. They will apply this knowledge by discussing current research topics (part 1). The general knowledge will be transferred to specific content areas like cognitive development and perception (part 2 and 3) . Students should be able to recognize and critically evaluate the value of considering neuroscience in studying psychological topics.</p>
<p><b>Competencies:</b> Understanding of scientific literature and scientific talks, applying knowledge to different subject areas, interdisciplinary and integrative thinking, mastery of techniques for the presentation of scientific results and discussion of current research topics.</p>
<p><b>Contents:</b> Module part 1: Introduction to cognitive neuroscience</p> <ul style="list-style-type: none"> <li>• Brain and cognition, methods of cognitive neuroscience</li> <li>• Attention, learning and memory</li> <li>• Emotional and social behaviour</li> <li>• Language, executive functions</li> </ul> <p>Module part 2: Neurocognitive development</p> <ul style="list-style-type: none"> <li>• Brain development and neural plasticity</li> <li>• Development of language, memory, spatial cognition, object recognition, social cognition, and executive functions</li> </ul> <p>Module part 3: Perception and illusions</p> <ul style="list-style-type: none"> <li>• The visual system and demonstration of optical illusions</li> <li>• The relevance of optical illusions for the understanding of “normal” visual perception</li> <li>• Philosophical implications</li> </ul> <p>Literature:</p> <ul style="list-style-type: none"> <li>• Jamie Ward: The Student`s Guide to Cognitive Neuroscience, Psychology Press 2010</li> <li>• Nelson/Haan/Thomas: Neuroscience of Cognitive Development: The Role of Experience and the Developing Brain, Wiley &amp; Sons, 2006.</li> <li>• Al Seckel: Optical Illusions: The Science of Visual Perception, Firefly Books, 2009</li> </ul>
<p><b>Teaching methods:</b> Module part 1: 1 lecture (1 SWS) and one seminar including online lectures (1SWS) Module part 2: 1 seminar (2 SWS) Module part 3: 1 seminar (2 SWS)</p>
<p><b>Requirements for participation:</b> Enrollment in master program</p>
<p><b>Effort:</b> Presence: 84 h (6 SWS), learning: 186 h., total: 270 h.</p>
<p><b>Credit points:</b></p> <ul style="list-style-type: none"> <li>• Total number of credit points for the module: 9 (3CP for each module part)</li> </ul>
<p><b>Exams:</b></p> <ul style="list-style-type: none"> <li>• The module will be tested with a written exam.</li> </ul>
<p><b>Person responsible:</b> XXX</p>