

Cognitive Neuroscience

E-601-HUTA



Year	3
Semester	Fall
Type of course	Core
Prerequisites	E-415- HUMT
Schedule	3 hours per week for 15 weeks; 6 ECTS
Lecturer	Kamilla Rún Jóhannsdóttir, Brynja Björk Magnúsdóttir og Magnús Jóhannsson
Content	
<p>This course examines biological mechanisms underlying cognition, with a particular focus on the neural substrates of mental processes and their behavioural manifestations; methods in cognitive neuroscience, including EEG, functional neuroimaging; brain-behaviour interactions obtained from studies of human brain damage and the normal brain; the representation of language; hemispheric specialization; and dyslexia, movement disorders and affective disorders.</p>	
Learning outcome - On completing the course, each student should be able to:	
<ul style="list-style-type: none"> • Describe the main biological (and neurological) explanations which lie behind various human actions and behaviour, both as regards everyday actions and behaviour and those which are classified as disorders. • Be very familiar with methods and ethical problems of cognitive neuroscience. • Acquire a better understanding of the complex relationship between behaviour, cognition, and brain function. • Show in project work an ability to use their knowledge in cognitive neuroscience by transferring it over to disease incidents. • Independently discuss specific disease incidents and analyse the causes behind them, as well as design an appropriate research which might shed further light on the relevant incident. 	
Course assessment	
<p>Attendance and participation, assignment, case studies. Grades are given on a 0 – 10 point scale. The minimum grade to pass the course is 5.0. The student needs to get a minimum average grade of 5.0 for all course assessment.</p>	
Reading material	
<p>Ward, J. (2010). <i>The Student's Guide to Cognitive Neuroscience</i> (2. ed). NY: Psychology Press.</p>	
Teaching and learning activities	
<p>Lectures, in class exercises and discussions.</p>	
Language of instruction	Icelandic