

H7ADCPN: Advanced Cognitive Psychology and Neuroscience

Module Code:	H7ADCPN
Long Title	Advanced Cognitive Psychology and Neuroscience APPROVED
Title	Advanced Cognitive Psychology and Neuroscience
Module Level:	LEVEL 7
EQF Level:	6
EHEA Level:	First Cycle
Credits:	5
Module Coordinator:	David Mothersill
Module Author:	David Mothersill
Departments:	School of Business
Specifications of the qualifications and experience required of staff	Lecturer with PhD in Psychology or related cognate discipline
Learning Outcomes	
<i>On successful completion of this module the learner will be able to:</i>	
#	Learning Outcome Description
LO1	Demonstrate a critical understanding of cognitive psychology topics including executive function, decision-making, and social cognition.
LO2	Demonstrate a critical understanding of the history of cognitive neuroscience, including key experiments, experimental methods, and what these have revealed about the biological mechanisms underlying cognitive processes such as executive function, decision-making, and social cognition.
LO3	Identify key structures within the brain and nervous system and relate their function to cognitive processes such as memory, executive function, decision-making, and social cognition.
LO4	Assess the strengths and limitations of the research methods used in cognitive psychology and cognitive neuroscience, including neuropsychological assessments, behaviour based cognitive tests, EEG, eye-tracking, and fMRI.
LO5	Demonstrate a critical understanding of research into cognitive dysfunction in conditions such as schizophrenia and bipolar disorder, and research into efforts to improve cognitive function in these groups, including cognitive remediation therapy.
Dependencies	
Module Recommendations	
No recommendations listed	
Co-requisite Modules	
No Co-requisite modules listed	
Entry requirements	There are no additional entry requirements for this module. The programme entry requirements apply.

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Module Content & Assessment			
Indicative Content			
<p>Module content: The module will begin with discussion of cognitive processes such as executive function, decision making, and social cognition. The module will go on to discuss the history of cognitive neuroscience and biological mechanisms underlying these cognitive processes, as well as cognitive dysfunction in conditions such as schizophrenia, and efforts to improve cognitive function in these groups.</p> <p>Below is an indicative outline of the module content: Cognitive psychology research into executive function, decision-making, and social cognition History of cognitive neuroscience Biological mechanisms underlying processes such as executive function, decision-making, and social cognition Research techniques in cognitive psychology and cognitive neuroscience, including practical experience on administering objective and subjective neuropsychological assessments. Cognitive dysfunction in conditions such as schizophrenia. Efforts to improve cognitive function in conditions such as schizophrenia, including cognitive remediation therapy.</p>			
Assessment Breakdown			%
Coursework			50.00%
End of Module Assessment			50.00%
Assessments			
Full Time			
Coursework			
Assessment Type:	Continuous Assessment	% of total:	50
Assessment Date:	n/a	Outcome addressed:	1,2,3,4
Non-Marked:	No		
<p>Assessment Description: Group presentation on a current topic in cognitive psychology and neuroscience.</p>			
End of Module Assessment			
Assessment Type:	Terminal Exam	% of total:	50
Assessment Date:	End-of-Semester	Outcome addressed:	1,2,3,4,5
Non-Marked:	No		
<p>Assessment Description: Students will answer 2 out of 5 questions which may be based on any aspect of course content</p>			
No Workplace Assessment			
Reassessment Requirement			
<p>Repeat examination <i>Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.</i></p>			
<p>Reassessment Description Students will be required to complete one repeat terminal examination that covers all of the learning outcomes.</p>			

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Module Workload				
Module Target Workload Hours 0 Hours				
Workload: Full Time				
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	Classroom and demonstrations	24	Per Semester	2.00
Independent Learning	Independent learning	101	Per Semester	8.42
Total Weekly Contact Hours				2.00

Module Resources	
<i>Recommended Book Resources</i>	
<p>Gazzaniga, M.S., Ivry, R.B., & Mangun, G.R. (2018), Cognitive Neuroscience: The Biology of the Mind, Fifth Edition. W. W. Norton & Company.</p> <p>Goldstein, B. (2018), Cognitive Psychology, 1st EMEA Ed. Wadsworth, Belmont, CA.</p> <p>Eysenck, M.W. & Keane, M.T. (2020), Cognitive Psychology: A Student's Handbook, 8th Ed. Psychology Press, New York.</p> <p>Banich, M.T. (2003), Cognitive Neuroscience and Neuropsychology, Cengage Learning.</p>	
<i>Supplementary Book Resources</i>	
<p>Poeppel, D., Mangun, G.R., & Gazzaniga, M.S. (2020), The Cognitive Neurosciences, Sixth Edition. MIT Press.</p> <p>Farinella, M. & Ros, H. (2013), Neurocomic, First Edition. Nobrow Ltd.</p> <p>Alexio, P. & Baillon, M. (2008), Biological Psychology: An illustrative Survival Guide, Wiley, Sussex, UK.</p>	
<i>This module does not have any article/paper resources</i>	
<i>This module does not have any other resources</i>	
Discussion Note:	