

Summary Information

Module Code	7102BRAIN
Formal Module Title	Cognitive Neuroscience
Owning School	Psychology
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Psychology

Learning Methods

Learning Method Type	Hours
Lecture	28
Seminar	14

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To provide an understanding of advanced and state-of-the-art topics in cognitive neuroscience, within the context of healthy and disordered brain structure and function.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Scrutinise past and current literature in the field of cognitive neuroscience (e.g. neural systems associated with attention, perception, memory, language, cognitive control and working memory)
MLO2	2	Critically evaluate current research methods in the field of cognitive neuroscience
MLO3	3	Understand and critically assess how the different cognitive systems function in health and mental/neurodegenerative disorders
MLO4	4	Synthesize and communicate neuroscientific information in a clear and concise manner

Module Content

Outline Syllabus	This module focuses on state-of-the-art and recent advanced cognitive neuroscience research, based on the framework of the National Institute of Health (NIH) Research Domain Criteria (RDoC). Specifically, the module will examine the RDoC Cognitive Systems domain, which includes attention, perception, memory, language, cognitive control and executive functions such as working memory. Cognitive neuroscientific research typically examines these areas from the perspective of genes, neurotransmitter molecules, cells, brain circuitry, neurophysiology, cognitive-behavioural interaction, subjective self-report and objective neuropsychological task performance. The module will consider these innovative areas of cognitive neuroscience from the perspectives of health, mental disorder and neurodegenerative disease.
Module Overview	This module provides an understanding of advanced and state-of-the-art topics in cognitive neuroscience, within the context of healthy and disordered brain structure and function. Through lectures and seminars you will consider the neural basis of cognitive functions such as perception, memory and cognitive control and their malfunction in neuro-degenerative and mental-health disorders.
Additional Information	This second semester module builds on the knowledge of neuroanatomy and methodological design and analysis acquired in the Current Methods in Brain and Behaviour module delivered in semester 1, allowing students to apply their knowledge to critically evaluate the cognitive neuroscience literature and in health and in a range of mental health and neurodegenerative disorders. Students will be encouraged to use their knowledge to debate contemporary issues in the field - e.g. Categorical versus transdiagnostic perspectives.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Examination	60	2	MLO1, MLO2, MLO3
Presentation	Presentation	40	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Samantha Brooks	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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