

### Summary Information

Module Code	6203PSYSCI
Formal Module Title	Cognitive Neuroscience
Owning School	Psychology
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Psychology

### Learning Methods

Learning Method Type	Hours
Lecture	30
Online	4
Seminar	6

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
			12 Weeks

### Aims and Outcomes

Aims	1. To examine the relationship between brain and behaviour.2. To introduce the main methodologies of Cognitive Neuroscience, such as brain imaging, lesion studies, electrophysiological studies.3. To examine how the use of different neuroscientific methodologies fosters the understanding of cognitive functions.4. To explore the role of Cognitive Neuropsychology within the wider field of Cognitive Neuroscience.5. To examine the effects of different types of brain damage on psychological functioning.6. To examine several cognitive functions in greater detail, as for example perception, attention, memory, or executive functions.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Critically appraise the contribution of various neuroscientific methods to understanding cognitive functions
MLO2	2	Assess the usefulness of studying acquired cognitive disorders for our understanding of normal cognitive processes.
MLO3	3	Critically evaluate the link between brain activity and cognitive functions.

### Module Content

Outline Syllabus	- Methods of Cognitive Neuroscience- Conceptual and historical issues of cognitive neuroscience- Attentional functions and dysfunctions- Neurotransmission and Neurotransmitters- Object recognition - processes and impairments- Executive functions- Memory and memory disorders- Neuroscience of thinking and reasoning- Neuroscience of language and reading
Module Overview	Cognitive Neuroscience addresses the question how the brain enables human cognition and behaviour by employing a variety of different methodologies. The module will examine how methodologies as for example lesion studies, functional brain imaging, electrophysiological studies and behavioural experiments contribute to our understanding of a variety of cognitive functions such as memory, attention and perception.
Additional Information	Cognitive Neuroscience addresses the question how the brain enables human cognition and behaviour by employing a variety of different methodologies. The module will examine how methodologies as for example lesion studies, functional brain imaging, electrophysiological studies and behavioural experiments contribute to our understanding of a variety of cognitive functions such as memory, attention and perception. It will encourage students to acknowledge the importance of considering converging evidence from a variety of empirical sources to understand human cognitive functions. It further provides an appropriate conceptual and historical framework of cognitive neuroscience.

### Assessments

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

### Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Valentina Cazzato	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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