

Module Code	ECPS5018
Title	The Brain: Biology and Cognition
Date	28/10/2022
Level	5
Credits	20
Pre-Requisites	None

AIM(S)

- To enable students to critically discuss core theories and methodologies for studying human cognition, biology, and neuroscience and to enhance students' understanding of the link between cognition, the brain, and behaviour.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- critically discuss key theories of human cognition;
- critically discuss the role of the brain and the biological bases of behaviour;
- develop a critical understanding of the methods used to explore the link between the brain and cognition;
- take responsibility for their own learning and skill development, including effective personal planning, self-reflection, and project management skills.

INDICATIVE CONTENT

This module will bring together two core BPS curriculum topics to deliver a coherent integration of coverage that allows students to develop an understanding of the biopsychological systems and their role in cognitive processes. By combining these topics, students will develop an understanding of how the physical structures and functions of the brain influence cognitive processes such as memory, learning, thinking, language, and the methods used to explore these processes.

Specific content coverage mapping onto BPS Core Curriculum for cognitive psychology will include:

- Thinking
- Memory
- Learning
- Language
- Problem-solving
- Cognitive Neuropsychology

Specific content coverage mapping onto BPS Core Curriculum for biological psychology will include:

- Structures and functions of the nervous system
- Biological bases of human and non-human animal behaviour
- The influence of drugs
- Neuropsychology
- Techniques for studying the brain e.g., neuroimaging
- Biological damage and cognitive deficits
- Typical and atypical neuropsychology

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	30	15%
Independent learning	170	85%
Placement learning	0	0
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Essay	2,500 words	50%

Assessment Component 2

☒ Written exam ☐ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Exam	2 hours	50%

Assessment Summary

Activity type	Percentage
Written exam	50%
Coursework	50%
Practical	0
TOTAL	100%

This module is a core requirement for Graduate Basis for Chartership (GBC) accreditation with the British Psychological Society (BPS) as set out in documentation to the BPS February 2018.

INDICATIVE READING LIST

Module Code	ECPS5018	
Module Title	The Brain, Biology and Cognition	
Classification	Reading List entry	Electronic*
Essential	Pinel, J. P. J., & Barnes, S. J. (2022). Biopsychology (11 th Ed.). Pearson.	☒
Essential	Eysenck, M. W., & Keane, M. T. (2020). Cognitive psychology: a student's handbook (8 th Ed.). Routledge.	☒
Essential	Kok, A. (2020). Functions of the brain: a conceptual approach to cognitive neuroscience. Routledge.	☒
Further	Purves, D., Augustine, G., Fitzpatrick, D., Hall, W. C., LaMantia, A.-S., & White, L. E. (2018). Neuroscience (5 th ed.). Oxford University Press.	☐
Further	Kalat, J. W. (2018). Biological psychology (13 th Ed.). Cengage.	☐
Further	Gazzaniga M. S., Ivry, R. B., & Mangun, G. R. (2014). Cognitive neuroscience: the biology of the mind (4 th Ed.). Norton.	☒
Further	Coxon, M. (2012). Cognitive psychology. Learning Matters.	☒
Further	Braisby N., & Gellatly, A. (2012). Cognitive psychology (2 nd Ed.). Oxford University Press.	☒
Further	Slotnick, S. (2017). Cognitive neuroscience of memory. Cambridge University Press.	☒
Further	Higgs, S., Cooper, A., & Lee, J. (2020). Biological psychology (2 nd Ed.). Sage.	☐
Further	Bear, M. F., Connors, B. W., & Paradiso, M. A. (2016). Neuroscience : exploring the brain (Enhanced 4 th Ed.). Jones & Bartlett Learning.	☒
Journal	Journal of Experimental Psychology (General and Specific)	☒
Journal	Cognitive Psychology	☒
Journal	Biological Psychology	☒
Journal	Neuroscience and Biobehavioral Reviews	☒
Journal	Neuropsychology	☒
Journal	Brain and Cognition	☒
Journal	Neuroscience	☒