



Module Specification

Neurophysiology and Brain Imaging

Version: 2023-24, v2.0, 28 Jun 2023

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Part 1: Information

Module title: Neurophysiology and Brain Imaging

Module code: USPKJL-15-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Health & Applied Sciences

Department: HAS Dept of Social Sciences

Partner institutions: None

Field: Psychology

Module type: Module

Pre-requisites: Mind, Brain, and Development 2023-24

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes.

Outline syllabus: The content of the module may vary from year to year to take account of the expertise of staff and developments in the field. However the list below provides a summary of the potential content for this module which focuses on

neurophysiology and brain imaging, including potentially:

EEG, MEG, DTI, fMRI, MRI, PET and other imaging methodologies

Methodological issues within each measure including issues of timing, directness of measure, analysis, interpretation;

Practical skills: programming and running EEG experiments.

Part 3: Teaching and learning methods

Teaching and learning methods: Scheduled learning includes lectures, seminars, tutorials, practical classes and workshops.

Independent learning includes hours engaged with essential reading, assignment preparation and completion etc. A variety of approaches will be used with the aim of maximising the active engagement of students. These may include:

Lectures

Seminars/ Workshops

Directed and Independent Learning

Formative Assessment Opportunity

TEL. Students will be enabled to use Blackboard the university supported virtual learning environment to organise and communicate their learning material. Students will be able to engage with the material, other students and members of staff through this system and make use of the various functionalities built into the Blackboard (e.g., blogs, journals, audio, video, discussion boards, wikis, etc.). Innovative technologies will be used to enhance in class interaction such as the Turning Point technologies.

Scheduled learning: Scheduled learning for this project will be approximately 36 hours and may take several forms, such as lectures, seminar discussion, practical workshop on assessment and diagnosis, films, virtual learning environments (VLEs)

and other technology-aided means.

Independent learning: Students will be expected to spend 114 hours on independent learning tasks and preparation of assessments.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate an understanding of neurophysiology and brain imaging

MO2 Understand the difference in information that different brain imaging methods capture

MO3 Critically evaluate neurophysiology and brain imaging research and methodology

MO4 Demonstrate practical application of theoretical, psychological, behavioural, experimental timing and methodological knowledge in design and programming of brain imaging research

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/index.html) via the following link <https://uwe.rl.talis.com/index.html>

Part 4: Assessment

Assessment strategy: The assessment criteria directly relate to the listed learning outcomes including the critical appraisal of the relevant literature and a clear understanding of the findings for theory development as well as practice (e.g., clinical and educational or public health) and wider societal well-being.

Practical demonstration:

Assessment one is comprised of a practical demonstration of methodology in the laboratory setting showing a critical understanding of practical application of theoretical, psychological, behavioural, experimental timing and methodological knowledge in design and programming of brain imaging research.

Portfolio:

The Portfolio is designed to assess the extent to which students can demonstrate practical application of theoretical, psychological, behavioural, experimental timing and methodological knowledge in design and programming of brain imaging research. The portfolio would consist of short worksheets associated with each topic material in addition to a practical write-up based on a mini-study conducted in small groups that uses EEG methodology.

Assessment tasks:**Practical Skills Assessment (First Sit)**

Description: Practical demonstration (20 mins)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO4

Portfolio (First Sit)

Description: Coursework portfolio (equivalent to 1500 words)

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Practical Skills Assessment (Resit)

Description: Practical demonstration (20 mins)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO4

Portfolio (Resit)

Description: Coursework portfolio (equivalent to 1500 words)

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Psychology (Applied) [Frenchay] BSc (Hons) 2023-24

Law with Psychology [Sep][FT][Frenchay][3yrs] LLB (Hons) 2021-22

Psychology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Applied Psychology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Health Psychology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Social Psychology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Biological Psychology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Psychology and Mental Health [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Sociology with Psychology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Psychology with Criminology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Sociology with Psychology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Law with Psychology [Sep][SW][Frenchay][4yrs] LLB (Hons) 2020-21

Psychology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Health Psychology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Psychology {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Applied Psychology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Social Psychology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Biological Psychology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Psychology and Mental Health [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Sociology with Psychology {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Psychology with Criminology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Psychology with Criminology {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Sociology with Psychology {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Psychology [Sep][PT][Frenchay][6yrs] BSc (Hons) 2019-20

Psychology {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Psychology with Criminology [Sep][PT][Frenchay][6yrs] BSc (Hons) 2019-20

Psychology with Criminology {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Sociology with Psychology [Sep][PT][Frenchay][6yrs] BSc (Hons) 2018-19

Psychology with Criminology [Sep][PT][Frenchay][6yrs] BSc (Hons) 2018-19

Psychology with Sociology [Sep][PT][Frenchay][6yrs] - Withdrawn BSc (Hons) 2018-19

Psychology [Sep][PT][Frenchay][6yrs] BSc (Hons) 2018-19

Applied Psychology [Sep][PT][Frenchay][6yrs] BSc (Hons) 2018-19