



MODULE SPECIFICATION

Part 1: Information			
Module Title	Foundations of Neuroscience for Physiotherapy		
Module Code	UZYSY3-15-1	Level	Level 4
For implementation from	2020-21		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Health & Applied Sciences	Field	Allied Health Professions
Department	HAS Dept of Allied Health Professions		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Educational Aims: See Learning Outcomes</p> <p>Outline Syllabus: Overview of central and peripheral nervous systems to include:</p> <ul style="list-style-type: none"> Microstructures/cellular anatomy/terminology Electrical activity in the nervous system – action potential, synapses Sensory receptors, pathways, and perception Cortex Motor pathways Motor control Stroke Cerebellum Cerebellar disorders Brainstem Reticular formation Hippocampus Amygdala Spinal cord Reflexes

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Basal ganglia and Basal ganglia disorders
 Vestibular system and Vestibular disorders
 Balance
 Neuroplasticity
 Peripheral nerve injury

Assessed Practical Skills

Identify normative responses using a range of sensory, motor and functional assessment procedures to include:

Sensory testing: proprioception, temperature, light touch, pin-prick, 2 point discrimination, stereognosis, Romberg's, co-ordination testing, assessment of sitting and standing balance, myotomes, reflexes, dermatomes, tone.

Teaching and Learning Methods: Lectures provide an introduction and summary of the topic area. Seminars include problem solving, case studies and discussions and use of workbooks to support learning. The format of lecture followed by seminar and practical skills teaching on a given topic allows for integration and application of theoretical knowledge with practical skills.

Additionally, students are expected to engage in self study using the resources and structure in the workbooks provided and Blackboard. Preparation time is focused on essential reading, supplemented by self assessment exercises from the workbook and by attempting sample questions. A major part of their study time is taken up by exam preparation, including sample question and practical skills practice.

Scheduled learning includes lectures, seminars, practicals and group tutorials.

Independent learning includes hours engaged with essential reading, attempts at sample questions and exam preparation.

Part 3: Assessment

An online written examination (with a 24 hour submission window) will enable comprehensive testing of knowledge and understanding and its application to a range of clinical presentations.

Continuous practical skills assessment will test key practical, neurological specific assessment skills including communication and professionalism.

Formative assessment opportunities occurring the form of a mock written examination. Module answers are made available at a later date whereby students can self assess their performance.

Formative assessment in the form of a mock practical examination is also used and students are given verbal feedback on their performance.

Throughout the course of the module MCQs, quizzes, Turning Point and sample question are available in order for students to monitor their learning and understanding of the subject material. Practical teaching allows for students to be given feedback on their practical skills within the classroom environment.

First Sit Components	Final Assessment	Element weighting	Description
Examination (Online) - Component A	✓	100 %	Online exam (24 hours)
Practical Skills Assessment - Component B		0 %	Continuous Practical Skills Assessment Pass/Fail

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Examination (Online) - Component A	✓	100 %	Online exam (24 hours)
Practical Skills Assessment - Component B		0 %	Continuous Practical Skills Assessment

Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th>Module Learning Outcomes</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Explain the anatomy and the physiology of identified areas of the central and peripheral nervous systems</td> <td>MO1</td> </tr> <tr> <td>Explain the neurological components of human posture, movement and specified sensory function</td> <td>MO2</td> </tr> <tr> <td>Explain neuroplasticity, skill acquisition and the principles of motor learning</td> <td>MO3</td> </tr> <tr> <td>Explain the physiological response to injury in specified conditions, and describe how pathological changes seen in these conditions give rise to the expected clinical features</td> <td>MO4</td> </tr> <tr> <td>Apply safe and effective neuro - specific assessment skills</td> <td>MO5</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Explain the anatomy and the physiology of identified areas of the central and peripheral nervous systems	MO1	Explain the neurological components of human posture, movement and specified sensory function	MO2	Explain neuroplasticity, skill acquisition and the principles of motor learning	MO3	Explain the physiological response to injury in specified conditions, and describe how pathological changes seen in these conditions give rise to the expected clinical features	MO4	Apply safe and effective neuro - specific assessment skills	MO5				
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Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/modules/uzysy3-15-1.html</p>																

Part 5: Contributes Towards
This module contributes towards the following programmes of study: