

Module code: MOD011031	Version: 1 Date Amended: 17/Jul/2025
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1. Module Title
Advanced Equine Therapy: Manual, Electrophysical agents, and Exercise Prescription

2a. Module Leader
Hope Jameson

2b. School
Writtle School of Agriculture, Animal and Environmental Sciences

2c. Faculty
Faculty of Science and Engineering

3a. Level
7

3b. Module Type
Standard (fine graded)

4a. Credits
30

4b. Study Hours
300

5. Restrictions			
Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	BSc Equine sports therapy and rehabilitation, BSc Animal Therapy, rehabilitation and performance, BSc Canine Therapy rehabilitation and performance. MVetphys Veterinary Physiotherapy, Canine and Equine		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description
This module focuses on enhancing the clinical expertise of equine physiotherapists by developing advanced assessment and treatment techniques. You'll critically evaluate and apply manual therapies alongside electrophysical therapy modalities to deliver evidence-based, patient-specific interventions. Emphasis is placed on developing clinical reasoning and practical competency through hands-on sessions, where you'll refine your ability to assess, implement, and justify tailored rehabilitation programmes to optimise recovery and functional outcomes for equine patients. Key focus areas include the functional relationship between equine anatomy and biomechanics, the assessment and interpretation of gait patterns, and the identification of alterations associated with a range of musculoskeletal, neurological, and systemic conditions. You'll be encouraged to engage in student-managed learning by identifying and addressing your own developmental needs, critically appraising current research, and applying knowledge to complex clinical cases. Through this module, you'll develop the key skills and confidence required to deliver comprehensive, effective, and evidence-informed care within equine rehabilitation settings.
6b. Outline Content

Advanced Equine Clinical Assessment

In-depth evaluation techniques for equine musculoskeletal and neurological systems

Gait and movement analysis specific to equine locomotion

Functional assessment strategies tailored to equine athletes and rehabilitation cases

Manual and Electrophysical Therapy Techniques for Equines

Advanced manual therapy approaches

Use of electrophysical modalities

Tailored application of therapies based on the specific needs of equine patients

Equine Rehabilitation and Exercise Prescription

Developing individualised equine rehabilitation programs

Exercise strategies for improving functional recovery and performance in horses

Integration of aquatic therapy and other therapeutic exercises for equine patients

Equine Anatomy and Biomechanics

Detailed understanding of equine anatomical structures and their roles in movement

Biomechanics of normal equine gait and alterations due to injury or dysfunction

Assessment and interpretation of equine movement dysfunctions

Evidence-Based Practice and Treatment Protocols for Equines

Integrating current equine research into clinical decision-making

Developing and implementing evidence-based treatment protocols for equine care

Evaluating and refining equine treatment outcomes based on measurable results

6c. Key Texts/Literature

The reading list to support this module is available at: <https://readinglists.aru.ac.uk/>

6d. Specialist Learning Resources

Anatomical models/ exercise rehabilitation equipment/ electrophysical agents, horses, gait analysis systems, specialised veterinary texts and journals, hydrotherapy facilities

7. Learning Outcomes (threshold standards)		
No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Utilise advanced assessment skills to critically evaluate and apply advanced manual and electrophysical therapy techniques to deliver evidence-based treatment interventions tailored to the needs of horses.
2	Knowledge and Understanding	Apply in-depth knowledge of pathophysiology of disease to inform the development of clinical reasoning skills.
3	Knowledge and Understanding	Evaluate the interaction of anatomy and biomechanics to assess gait patterns and their alterations related to various conditions and diseases.
4	Intellectual, practical, affective and transferrable skills	Develop and implement evidence-based exercise rehabilitation programs to enhance recovery and functional outcomes of horses.
5	Intellectual, practical, affective and transferrable skills	Master expertise in application of advanced physiotherapeutic techniques in a clinical setting.

8a. Module Occurrence to which this MDF Refers				
Year	Occurrence	Period	Location	Mode of Delivery
2026/7	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	36	1-4	Theory content once a week
Other teacher managed learning	96	1,2,3,5	Practical content/ active learning
Student managed learning	168	1-3	Independent study, reflection, self-assessment, support sessions, peer collaboration, practice-based learning, resources access
TOTAL:	300		

9. Assessment for the above Module Occurrence

The assessment for some modules includes a presentation (see below for details on how this particular module is assessed). We recognise that presenting, especially to a large group, can cause significant anxiety or distress for some students. If this may affect you, please contact your Module Leader or the Disability and Neurodiversity Service as early as possible. We will work with you to consider appropriate reasonable adjustments. Depending on your individual needs, these might include, for example, presenting to a smaller group or presenting only to a member of academic staff.

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Practical	1,3,4,5	0 (%)	Pass/Fail	100 (%)

Virtual Simulation Videos-Based on biomechanical assessment & rehabilitation techniques

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
011	Practical	1,3,4,5	0 (%)	Pass/Fail	100 (%)

OSCE 1

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
012	Coursework	1,2,3	100 (%)	Fine Grade	40 (%)

Critically analyse of electrophysical agents 3000 words

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:

- (a) achieve the qualifying mark for each element of fine graded assessment as specified above
- (b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]