

Module Title:	Electrophysical Agents
Language of Instruction:	English
Credits:	5
NFQ Level:	8
Module Delivered In	1 programme(s)
Teaching & Learning Strategies:	This module will be taught in one theory class per week of one hour duration and two hour practical classes for twelve weeks . Relevant research papers and notes will be available on Blackboard. Group and peer learning will be used during practical classes with the use of case studies. Any course-related issue or questions that may arise will be discussed at lectures.
Module Aim:	To teach the student the appropriate and safe application and theory of electrotherapy modalities
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Appraise the role that electrophysical agents plays in rehabilitation.
LO2	Comprehend the indications and contra-indications to electrophysical agents and to be able to safely and competently apply electrophysical agents to patients
LO3	Formulate the most appropriate electrophysical agents to use in a clinical setting
Pre-requisite learning	
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
Successful completion of year 2 or equivalent	

Module Content & Assessment

Indicative Content

Theory 1.1

Cryotherapy: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Theory 1.2

Thermotherapy: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Theory 1.3

Ultrasound: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Theory 1.4

Laser: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Theory 1.5

TENS: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Theory 1.6

Interferential: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Theory 1.7

Muscle Stimulation: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Theory 1.8

Emerging new electrophysical agents: Biological effects, mechanism of action, therapeutic effects and uses, clinical evidence, application methods and guidelines.

Assessment Breakdown

	%
Continuous Assessment	40.00%
Practical	60.00%

Special Regulation

Students must achieve a minimum grade (35%) in the practical and the continuous assessment

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Short Answer Questions	The continuous assessment of this module will typically consist of case study based presentations and/or short questions or multiple choice based quizzes at the end of completion of key topics within the module.	1,2,3	40.00	Ongoing

No Project

Practical

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	A case study based practical assessment where students will be assessed on their ability to practically administer suitable electrotherapy treatments and the theory surrounding the treatment. This assessment will also insure that students are safe to apply these modalities to patients and therefore the practical exam must be passed independently to successfully pass the module	1,2,3	60.00	Sem 1 End

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	12 Weeks per Stage	1.00
Laboratory	12 Weeks per Stage	2.00
Independent Learning	15 Weeks per Stage	5.93
Total Hours		125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SASRA_B	Bachelor of Science (Honours) in Sports Rehabilitation and Athletic Therapy	5	Mandatory