



**ACADEMIC SERVICES**

**MODULE SPECIFICATION**

Part 1: Basic Data					
Module Title	Critical Care and Cardio Respiratory Rehabilitation				
Module Code	UZYSY8-30-2	Level	2	Version	1
UWE Credit Rating	30	ECTS Credit Rating	15	Professional Practice	No
Owning Faculty	Health and Applied Sciences	Field	Allied Health Professions		
Department	Allied Health Professions	Module Type	Professional Practice		
Contributes towards	BSc (Hons) Physiotherapy				
Pre-requisites	UZYSXX-15-1 Foundations of Cardiovascular and Respiratory Physiotherapy	Co-requisites	None		
Excluded Combinations	None	Module Entry requirements	N/A		
Valid From	September 2015	Valid to	September 2021		

<b>CAP Approval Date</b>	30 April 2015
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Part 2: Learning and Teaching	
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ol style="list-style-type: none"> <li>1.Explain the anatomy and physiology of the cardiovascular system and relate to the pathological changes of cardio vascular disease (Component B)</li> <li>2.Explain how the physiological changes and interactions between body systems give rise to the expected clinical features in critical illness.(Component B)</li> <li>3.Demonstrate awareness of the monitoring and intervention methods and equipment commonly used to support critically ill patients. .(Component B)</li> <li>4. Discuss and apply a range of assessment and management options for the critically ill patient, including rationale for selection. .(Component B)</li> <li>5. Demonstrate an understanding of the principles of rehabilitation for people with cardio respiratory problems associated with critical illness and long term conditions. .(Component B)</li> </ol>

6. Critically appraise the role of the physiotherapist in the management of people with cardiovascular and respiratory conditions. (Component B)

Practice

7. To achieve an acceptable standard for all practice skills (see Practice Outcomes document) Component A

Syllabus Outline

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**Cardio vascular Anatomy and Physiology**

Structure of heart and blood vessels  
Cardiac output, flow, resistance and blood pressure  
Exercise physiology

**Cardiovascular conditions** affecting the heart and blood vessels, heart failure, Atherosclerosis, Shock, Myocardial Infarction.

**Clinical Reasoning for People with cardiorespiratory problems related to:-**

Care of the critically ill, including intensive care, high dependency and in community settings  
Multiple organ failure and interaction between systems  
Post-operative care for thoracic and cardiac surgery and neurosurgery  
Managing acute and long term cardiorespiratory conditions in acute care and the community  
Principles of deconditioning and aerobic training  
Amputee rehabilitation  
Pulmonary rehabilitation  
Critical care and Post ITU rehabilitation  
Cardiac Rehabilitation  
Hyperventilation  
Respiratory muscle fatigue  
Principles of weaning  
End of Life Care  
Introduction to Paediatric ITU  
Issues relating to patient consent, and patient advocacy, blurring of roles.

**Physiotherapy Examination and Assessment Skills**

Monitoring of critically ill patient and interpretation of findings  
Aerobic exercise testing  
Assessing critically ill patients and developing problem lists and treatment plans  
Emergency assessment skills and protocols(ABCDE)

**Physiotherapy interventions and treatments skills**

Positioning, Oxygen therapy, humidification, suction, bagging, invasive and non-invasive ventilation. Intermittent Positive Pressure Breathing (IPPB), Cough Assist, Management of endotracheal tubes, tracheostomies, nasal and oral airways and chest drains.

**Practice**

Five weeks of Professional Practice in a variety of environments and health Care settings. Setting of individual personal goals relevant to practice and student's individual learning need.

The values of the NHS Constitution are implicit within this module.

Contact Hours

90 contact hours to usually include 2 hours of lectures and 4 hours of seminars/practical's per week over 15 weeks.(2 semesters)

Teaching and Learning Methods

- Lectures provide an introduction and summary of the topic area. Seminars included problem solving, case studies and discussions, and use workbooks to support learning. Practicals involve skills teaching and practice, simulations and equipment workshops.
- Additionally, students are expected to engage in 216 hours self-study using the resources and structure in the workbook and blackboard. Preparation time is focused on essential reading, supplemented by case study preparation and self-assessment exercises from the workbook. A major part of their study time is taken up by exam preparation, including sample questions.

**Scheduled learning** includes lectures, seminars, tutorials, demonstration, practical classes and workshops; supervised time in studio/workshop and clinical practice.

**Independent learning** includes hours engaged with essential reading, case study preparation, exam and clinical practice preparation and completion etc. These sessions constitute an average time per level as indicated in the table below.

**Practice**

Five weeks of Professional Practice in a variety of environments and health care settings. Placement is normally 187.5 hours. Setting of individual personal goals relevant to practice and student's individual learning need.

Key Information Sets Information

Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.

NB. This is a professional practice module. Clinical placement hours for a 5 week placement are 187.5; this is in accordance with recommendations by the Chartered Society of Physiotherapy that students complete a minimum of 1000 hours clinical placement.

Key Information Set - Module data				
Number of credits for this module				30
Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours
300	90	210	187.5	487.5



Please note that the placement hours may vary due to Bank Holidays.

The table below indicates as a percentage the total assessment of the module which constitutes a -

**Written Exam:** Unseen written exam, open book written exam, In-class test

**Coursework:** Written assignment or essay, report, dissertation, portfolio, project

**Practical Exam:** Oral Assessment and/or presentation, practical skills assessment, practical exam

Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:

Total assessment of the module:			
Written exam assessment percentage		50%	
Coursework assessment percentage		0%	
Practical exam- practice assessment		50%	
		100%	

Reading Strategy

**Core reading**

Any core reading will be indicated clearly, along with the method for accessing it, e.g. students may be expected to purchase a set text, be given a study pack or be referred to texts that are available electronically, or in the Library. Module guides will also reflect the range of reading to be carried out.

**Further reading**

All students are encouraged to read widely using the library search, a variety of bibliographic and full text databases and Internet resources. Many resources can be accessed remotely. Guidance to some key authors and journal titles available through the Library will be given in the module handbook and updated annually. Assignment reference lists are expected to reflect the range of reading carried out.

**Access and skills**

Students are expected to be able to identify and retrieve appropriate reading. This module offers an opportunity to further develop information skills introduced at Level 1. Students will be given the opportunity to attend sessions on selection of appropriate databases and search skills. Additional support is available through the library web pages, including interactive tutorials on finding books and journals, evaluating information and referencing. Sign-up workshops are also offered by the Library.

Indicative Reading List

The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. *Current* advice on additional reading will be available via the module handbook or Blackboard pages.

	<ul style="list-style-type: none"> <li>• Broad, M.A., Quint, M., Thomas, S. and Twose P, (2012) <i>Cardiorespiratory Assessment of the Adult Patient: A Clinician's Guide</i>. [Online] Edinburgh: Churchill Livingstone. [Accessed 21 November 2014].</li> <li>• Harden, B. ed (2009) <i>Emergency Physiotherapy: an on-call survival guide</i>. 2<sup>nd</sup> ed. Edinburgh: Churchill Livingstone.</li> <li>• Hough, A. (2014) <i>Physiotherapy in Respiratory Care and cardiac care: an evidence-based approach</i>. [4<sup>th</sup> Ed]. Boston, MA: Cenage learning EMEA</li> <li>• Pryor, J., and Prasad, A. (2008) <i>Physiotherapy for Respiratory and Cardiac problems</i>. 4th ed. [Online] Edinburgh: Churchill Livingstone. [Accessed 21 November 2014].</li> </ul>

<b>Part 3: Assessment</b>	
Assessment Strategy	<p>Strategy:</p> <ul style="list-style-type: none"> <li>• Practice will be assessed via Continuous Practice Assessment(CPA)</li> <li>• Learning outcomes and performance criteria will be used for the practice assessment</li> <li>• A written examination will enable comprehensive testing of clinical reasoning and its application to a range of clinical presentations. It will also test student's ability to undertake a complex respiratory assessment, recognise and analyse the findings, make decisions, select appropriate techniques and justify and evaluate their intervention.</li> </ul> <p>The Assessment:</p> <ul style="list-style-type: none"> <li>• 5 week continuous practice assessment– component A</li> <li>• 3 hour unseen exam - component B</li> </ul>

Identify final assessment component and element	<b>Component B</b>	
% weighting between components A and B (Standard modules only)	<b>A:</b>	<b>B:</b>
<b>First Sit</b>		
<b>Component A</b> (controlled conditions) <b>Description of each element</b>	<b>Element weighting</b>	
1. Continuous Practice Assessment (CPA)	Pass/Fail	
<b>Component B</b> <b>Description of each element</b>	<b>Element weighting</b>	
1. Written Examination (3 Hour)	100%	

<b>Resit (further attendance at taught classes is not required)</b>	
<b>Component A</b> (controlled conditions) <b>Description of each element</b>	<b>Element weighting</b>
1. Continuous Practice Assessment (CPA)	Pass/Fail
<b>Component B</b> <b>Description of each element</b>	<b>Element weighting</b>
1. Written Examination (3 Hour)	100%
If a student is permitted a retake of the module under the University Regulations and Procedures, the assessment will be that indicated by the Module Description at the time that retake commences.	