

Module Details	
Module Title	Pathophysiological Basis of Chronic Disease
Module Code	BIS7024-B
Academic Year	2020/1
Credits	20
School	School of Chemistry and Biosciences
Subject Area	Biomedical Science
FHEQ Level	FHEQ Level 7
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	18
Practical Classes or Workshops	9
Directed Study	173

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims
To understand the: Functional anatomy of the main organ systems such as the cardiovascular, respiratory and renal systems. Pathophysiology of age-related chronic diseases such as diabetes, bronchitis, osteoarthritis and cardiovascular disease. Cellular basis of therapeutics.

Outline Syllabus
To study the theoretical knowledge relating to cardiovascular, respiratory, renal, and joint function, as well as the identification of the pathophysiological basis of related diseases and the rationale for cell specific pharmacological intervention.

Learning Outcomes	
Outcome Number	Description
01	Demonstrate a systematic understanding of the mechanisms controlling the normal physiological function of the organ systems.
02	Demonstrate a systematic understanding of the molecular and cellular mechanisms of ion transport responsible for homeostasis in selected tissues and organs.
03	Demonstrate a systematic understanding of the pathophysiology of selected diseases such as diabetes, hypertension, heart failure, osteoarthritis, bronchitis, and renal failure.
04	Demonstrate a systematic understanding of the cellular basis of targeted pharmacological intervention in disease.

Learning, Teaching and Assessment Strategy
The module will be taught by a combination of lectures, case studies and workshops to facilitate an in-depth understanding of the core topics related to human disease. Summative assessment will be based on coursework elements in the form of workshops on core topics covered in the module.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Presentation	Presentation 1 on selected topic	20 mins	30%
Summative	Presentation	Presentation 2 on selected topic	20 mins	30%
Summative	Coursework	Critical Review (2500 Words)	N/A	40%
Formative	Coursework	In-workshop assessment	3 hours	N/A

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.