UNIVERSITY of BRADFORD

Module Descriptor

Module Details	
Module Title:	Neuroendocrine Regulation of Metabolism and Human Development
Module Code:	BIS7021-B
Academic Year:	2019-20
Credit Rating:	20
School:	School of Chemistry and Biosciences
Subject Area:	Biomedical Science
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	**Hours**
Lectures	18
Practical classes and workshops	9
Directed Study	173

Availability	
Occurrence	**Location / Period**
BDA	University of Bradford / Semester 1 (Sep - Jan)

Module Aims

To understand the:

Functional anatomy of the neuroendocrine system

Mechanisms regulating to hormone secretion and their sites of action in the central nervous system

Molecular mechanisms underlying biological timekeeping and their role in the regulation of the neuroendocrine axis e.g. appetite and body weight regulation

Role of hormones in reproduction, growth and development

Energy homeostasis and hormonal dysregulation in metabolism

Metabolic mechanisms that underlie age-related cognitive decline and dementia

Outline Syllabus

To study the theoretical knowledge relating to neuroendocrine regulation of hormone synthesis and release, including positive and negative feedback mechanisms that maintain homesostasis, particularly in relation to biological timekeeping, energy metabolism, fluid homeostasis, reproduction, growth and development and cognitive function.

Learning Outcomes

1	Demonstrate a comprehensive understanding of the mechanisms involved in appetite regulation
2	Discuss the physiological mechanisms responsible for biological rhythms
3	Demonstrate advanced understanding of the hormones involved in controlling reproduction, growth and development
4	Demonstrate critical awareness of hormonal contribution to disordered metabolism
5	Evaluate risk factors associated with neurological disease

Learning, Teaching and Assessment Strategy

The module will be taught by a combination of lectures and workshops to facilitate an in-depth understanding of the core topics related to neuroendocrinology, obesity and neurodiseases.

Summative assessment will be based on coursework elements in the form of workshops on selected core topics covered during the module.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Classroom test	Data interpretation exercise on workshop 1	3 hours	50%
Summative	Classroom test	Data interpretation exercise on workshop 2	3 hours	50%
Formative	Classroom test	In-workshop assessment	3 hours	%

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.