UNIVERSITY of BRADFORD

Module Descriptor

Module Details	
Module Title	Rehabilitation And Prosthetics
Module Code	MHT6019-B
Academic Year	2021/2
Credits	20
School	Department of Biomedical and Electronics Engineering
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Lectures	12
Seminars	6
Tutorials	3
Directed Study	167
Lectures	24
Seminars	3

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims

To provide an overview of common muscular skeletal/neural disorders and how/why such disorders come about and are diagnosed and treated. To convey an understanding of the materials and engineering principles used to achieve rehabilitation goals. To develop a critical understanding of associated scientific literature particularly in how research (patient responses) is used to inform developments in design. (An important module for those wishing to specialise in this important area in the NHS).

Outline Syllabus
N/A

Learning Outcomes	
Outcome Number	Description
01	Critically evaluate and discuss scientific journal articles related to rehabilitation approaches and practice for a range of common movement disorders;
02	Describe a range of present-day lower limb prosthetic devices and their mechanical functioning;
03	Explain how orthotic devices are able to initiate, restore, or secure function of the musculosketal system;
04	Be conversant with how data regarding patient responses to using a device can be analysed and interpreted to determine a device's efficacy as well inform developments in design.
05	Identify and describe common bone, muscular skeletal and/or neural disorders (e.g. due to stroke, spinal lesion, musculosketal deformities, etc.) and how/why such disorders occur

Learning, Teaching and Assessment Strategy
N/A

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Coursework - Written	Case study analysis 2000 words	50%
Summative	Coursework - Written	Critical review of literature 2000 words	50%
Formative	Self and Peer Assessment	data analysis and interpretation	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.

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