

Module Specification

Module Summary Information

1	Module Title	Health Care Technology Management
2	Module Credits	20
3	Module Level	7
4	Module Code	ENG7161

5	Module Overview
<p>Rationale:</p> <p>At an advanced level, this module will introduce you to various management protocols and procedures used within a Medical Devices / Health Care Sector to effectively manage a medical technology. It is intended that by undertaking this module at Master's Level (Level 7), you will be able to develop essential skills associated with the management of health care technology by undertaking strategic activities to inform your decision making so as to update an existing technology or implement the essential change(s) at your work. Strictly speaking these are the bespoke advanced level skills that you will need to acquire for your continuous professional development and career progression in the field of biomedical engineering.</p> <p>Alignment with programme philosophy and aims:</p> <p>This programme aims to develop a range of transferable technological and employability skills greatly valued by employers from both public and private sector industries across the globe. Therefore while studying this module you can expect to critically analyse various interacting / economic factors locally and internationally, consider various risk management procedures and either design or redesign medical device specifications for a tendering process. This will enable you to get introduced to various procurement/ inventory procedures used within a health care technology management environment.</p> <p>Learning and Teaching Strategy:</p> <p>This module will comprise of a number of approaches to learning. At level 7, this module will introduce you to 'Action Learning Sets (ALS)'. This pretty much allows you to work in small groups not only within a class room environment but also outside the class room setting to frequently meet and work collectively on various learning and teaching aspects of this module. Hence, right from the beginning of this module, you will engage in various formative activities in your ALS sets and this will feed into your summative assessment. In addition to key note lecture materials, there will be an emphasis on your use of online resources provided via Moodle to prepare for workshops, seminar groups and small group discussions. Workshops will cover the analysis of health care technology management related journal articles and mock assessment questions may be used formatively during these sessions to prepare for your summative assessment. Seminar groups will consider topics to attract specialist lectures from local employers that will allow you to explore solutions for real-life problems. Tutorials will be provided to discuss specific topics in more detail with small groups or individuals.</p> <p>Assessment Strategy</p> <p>Assessment will be via 3000 words written coursework / patchwork.</p>	

6 Indicative Content**Session 1**

Introduction to the Module / Introduction to assessment – Patchwork approach
Developing action learning sets.

Presentation by Lecture – 2 hours

Session 2

Medical device technical specifications, standards and tendering regulations.

Introduce to Patch one

Lecture – 3 hours

Session 3

Practical Management of medical devices – Sourcing standards and resources required in medical device management.

Introduce to Patch two

Lecture – 1.5 hours

Workshop – 1.5 hours

Session 4

Consolidation / Feedback on Patches one and two – 3 hours.

Session 5

Importance of critical mass knowledge and economic factors of in-house service.

Introduce to Patch three

Lecture – 1.5 hours

Workshop – 1.5 hours

Session 6

Minimising clinical risk in the management of medical device.

Introduce to Patch four

Lecture – 1.5 hours

Workshop – 1.5 hours

Session 7

Consolidation / Feedback on Patches three and four – 3 hours.

Session 8

Design of clinical areas to accommodate medical device.

Lecture – 1.5 hours

Workshop – 1.5 hours

Session 9

Plenary / Tutorials – 3 hours

Module feedback – 30 minutes.

7	Module Learning Outcomes On successful completion of the module, students will be able to:	
	1	Develop a robust business case and navigate the tendering process to device technical specification of health care technologies.
	2	Analyse various economical methods available for maintaining health care technologies.
	3	Assess clinical risk in the management of health care technologies.
	4	Evaluate clinical areas and propose appropriate techniques useful in the installation of health care technologies.

8	Module Assessment		
Learning Outcome			
	Coursework	Exam	In-Person
1 – 4	X		

9	Breakdown Learning and Teaching Activities	
Learning Activities	Hours	
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	26 hours	
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	0	
Private Study (PS) includes preparation for exams	174 hours	
Total Study Hours:	200 hours	