

National College of Art and Design

A Recognised College of University College Dublin

MODULE DESCRIPTOR

Name of Module Design Fundamentals of Medical Device Design 1 (Module Code - Will be generated by Student Services)

Credits	5	Programme	MSc Medica	al device Design		
Level (NQAI	9	School	Design			
Framework)						
Stage	1	Module Coordinato	Enda O'Dov	vd		
Semester	1	Module Team	Enda O'Dov	vd, Derek Vallence, Martina		
			Moyne			
Objectives of						
		tudents to the selection of a		-		
	he medical	device industry and their im	plications for dev	ice design, validation and		
regulation	-					
What will I le						
		odule, students will be able				
	 Analyse a product from a materials, manufacturing and user perspective 					
	• Conduct a design /user failure modes and effects analysis in order to identify potential					
		des and design opportunitie				
		and describe in a comparativ	ve manner the mo	ost important materials for		
	n medical de					
		ctional requirements of a pr	oduct into quanti	fiable physical and		
	anical prope					
	-	e in order to minimise mate	rial use, potential	failures and improve user		
funct						
		riate material for a design fr		and defend in a scientific		
		ts of choosing a particular m				
• Selec	t an approp	riate method for processing	a material to ach	ieve the required shape.		
How will I lea		- viele		Hours		
Lectures/Wor	1.1		24			
Specified Learning Activities Autonomous Student Learning			6			
		rning		70		
Total Worklo				100		
How will I be	assessed?					
			% of Final	Timing		
NA 11 15 1		1	Module Grade			
Medical Devi	ce Product A	nalysis	40	Semester 1		

Material and Manufacturing Selection	20	Semester 1					
Redesign drafting and optimisation	40	Semester 1					
Total	100						
What happens if I fail?							
Resit Opportunities							
Pass in this module is a requirement for progression. This module must be repeated next year if							
failed on first occasion.							
Remediation							
Am I eligible to take this module?							
Module Requisites and Incompatibles							
Pre-Requisite: none							
Required :							
Co-Requisite: none							
Incompatibles:	Incompatibles:						
Prior Learning							
Requirements:							
Excluded:							
Recommended:							
When and where is this module offered?							
Timetabling information is displayed only for guidance purposes, relates only to 2015/16 and is							
subject to change.							
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Product Design Studio Room	Semester 1 (September – January)						

For further details on the content of your module and teaching arrangements consult your course handout