Curriculum 2025.2026
Programme Code: MTEMP006 Master of Engineering
Major Code: T166 ME Engineering with Business FT
Programme Director: Dr Kevin Roche

	Semester 1, Year 1 (Sept 2025)	Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)		Semester 2, Year 1 (Jan 2026)	Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)
Year 1: BUSINESS & ENGINEERING CORE Modules - all to be taken						**Year 1: BUSINESS & ENGINEERING CORE Modules - all to be taken**					
BMGT45710	Management and Organisational Behaviour		5		Dolores Smith Heffernan	**BMGT30090**	Entrepreneurship in Action		5		Orla Byrne
MEEN41350	Introduction to Robotics		5		Nikolaos Papakostas	**MEEN41090**	Engineering Decision Support Systems		5		Pezhman Ghadimi
						MEEN41100	Operations Management		5		Nikolaos Papakostas
Year 1: Students MUST SELECT ONE of the following 5.0cr ENGINEERING CORE Option to be taken from list below						**Year 1 CORE if not previously taken**					
MEEN40790	Supply Chain Design and Analysis			5	Di Nguyen	**MEEN30140**	Professional Engineering (Finance) (must be taken here if not already taken)			5	Pezhman Ghadimi
MEEN40800	Engineering Project Management			5	Javad Zeinali						
MEEN41330	Data Analytics for Engineers			5	Di Nguyen						
Year 1: TECHNICAL OPTIONS ACCOUNTING FOR 15 CREDITS TO BE TAKEN FROM WITHIN THE ME GROUPS BELOW						**Year 1: TWO TECHNICAL OPTIONS (10 CREDITS) TO BE TAKEN FROM WITHIN THE ME GROUPS BELOW (UNLESS MEEN 30140 Professional Engineering (Finance) already taken, then THREE (15 CREDITS))**					
	Technical Module 1			5			Technical Module 4			5	
	Technical Module 2			5			Technical Module 5			5	
	Technical Module 3			5			Technical Module 6			5	
	SEMESTER CREDIT TOTALS		**10**	**20**			**SEMESTER CREDIT TOTALS**		**15**	**15**	

	Semester 1, Year 2 (Sept 2026)	Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)		Semester 2, Year 2 (Jan 2027)	Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)
MEEN40930	Professional Work Placement (Autumn-Spring)		20		Kevin Roche	**MEEN40430**	Professional Engineering (Management)		5		Kevin Roche
MEEN41080	ME Eng. with Business Thesis (Autumn-Spring)		10		Kevin Roche	**MEEN41080**	ME Eng. with Business Thesis (Autumn-Spring)		10		Kevin Roche
						MIS40920	Business Information Systems Management ME/MEngSc		7.5		Clare Branigan
						MKT40970	Marketing Management ME (Business)		7.5		Aisling Roche
	SEMESTER CREDIT TOTALS		**30**				**SEMESTER CREDIT TOTALS**		**30**		
Year 1: TECHNICAL OPTIONS											
TECHNICAL OPTIONS (CONCENTRATIONS): MINIMUM 30 CREDITS TO BE TAKEN FROM WITHIN THE FOUR TECHNICAL OPTION GROUPS BELOW. MODULES HIGHLIGHTED IN YELLOW BELOW ARE COMPULSORY AND MUST BE TAKEN. SELECTION WILL BE SUBJECT TO ACADEMIC, TIMETABLING AND PREREQUISITE CONSTRAINTS AND MUST BE MADE IN CONJUNCTION WITH THE COURSE COORDINATOR.											
TECHNICAL OPTIONS: Civil & Structural Engineering (NVC1)											
CVEN40760	Case Studies (C)			10	Abd Al Salam Al-Sabah						
	Select **ONE** Option Modules from the following:						Select **THREE** Option Modules from following:				
CVEN40610	Advanced Materials			5	Ciaran McNally	**CVEN40050**	Design of Structures 3			5	Abd Al Salam Al-Sabah
CVEN40690	Civil Engineering Systems			5	David Ayala-Cabrera	**CVEN40060**	Transport Modelling			5	Beatriz Martinez-Pastor
CVEN40720	Geotechnics 3			5	Shane Donohue	**CVEN40070**	Water and Wastewater Treatment Processes	CVEN40700		5	Patrick Purcell
CVEN40780	Design of Structures 2			5	Abd Al Salam Al-Sabah	**CVEN40080**	Hydraulic Engineering Design	CVEN30060		5	Fiachra O Loughlin
CVEN40830	Applied Hydrology			5	Fiachra O'Loughlin	**CVEN40120**	Bridge Engineering			5	Muhammad Gulzari
MEEN40820	Technical Communications (online)			5	Barry Brophy	**CVEN40210**	Geotechnics 4			5	Shane Donohue
						CVEN40570	Water, Waste & Environmental modelling			5	Fiachra O Loughlin
						CVEN40710	Highway Engineering			5	Saptarshi Sen
TECHNICAL OPTIONS: Electronic Engineering (NEC1)											
EEEN40010	Control Theory (C)	EEEN30110		5	Paul Curran		Select **at least two** Option Modules from following:				
						COMP40660	Advances in Wireless Networking	COMP 30040		5	Madhusanka Liyanage
	Select **TWO** Option Modules from the following:					**COMP47670**	Data Science in Python (MD) (online)	Programming in a high-level language		5	Pádraig Cunningham
COMP41670	Software Engineering	Object-oriented programming		5	Avishek Nag	**EEEN40070**	Neural Engineering			5	Madeleine Lowery
EEEN40060	Digital Communications	EEEN30050, EEEN30060, EEEN30110		5	Mark Flanagan	**EEEN40280**	Digital and Embedded Systems	EEEN30190		5	Deepu John
EEEN40130	Advanced Signal Processing	EEEN30050		5	Le-Nam Tran	**MEEN40670**	Technical Communications			5	Barry Brophy
EEEN40310	Power Electronics Technology	EEEN20070, EEEN30020, EEEN30120		5	Terence O Donnell	**MEEN41440**	Robotic Applications			5	Nikolaos Papakostas
EEEN40050	Wireless Systems	EEEN30030		5	Barry Cardiff						
EEEN40150	Radio-Frequency Electronics			5	Anding Zhu						

TECHNICAL OPTIONS: Electrical Engineering (NEC2)											
EEEN40010	Control Theory (C)			5	Paul Curran		Select **at least two** Option Modules from following:				
	Select **TWO** Option Modules from the following:					**COMP47670**	Data Science in Python MD (online)			5	Pádraig Cunningham
EEEN40080	Power System Operation	EEEN20090		5	Damian Flynn	**ECON42360**	Energy Economics & Policy			5	Ciaran Mac Domhnaill
EEEN40100	Power Electronics and Drives			5	Hamed Heydari-Doostabad	**EEEN30070**	Power System Engineering	ELEN20010 & EEEN20020		5	Damian Flynn
EEEN40110	Renewable Energy Systems			5	Georgios Tzounas	**EEEN40090**	Power System Design	EEEN30070		5	Federico Milano
EEEN40550	Power Systems Dynamics and Control	EEEN30070, EEEN30090		5	Federico Milano	**EEEN40120**	Applications of Power Electronics	[EEEN30090 & EEEN40100 & EEEN30070] (co-requisite) & EEEN20090 & EEEN20020		5	Hamed Heydari-Doostabad
TECHNICAL OPTIONS: Mechanical Engineering (WMC1)											
MEEN40010	Engineering Thermodynamics III (C)			5	Donal Finn	**CHEN40560**	Process Control (C)			5	Niall English
MEEN40030	Manufacturing Engineering II (C)			5	David McManus		Select a**t least one** Option Module from following:				
MEEN41330	Data Analytics for Engineers			5	Di Nguyen	**MEEN40110**	Advanced Polymer Engineering			5	Nan Zhang
						MEEN40670	Technical Communications			5	Barry Brophy
						MEEN41150	Advanced Metals Processing			5	David Browne
						MEEN41440	Robotic Applications			5	Nikolaos Papakostas