

Curriculum 2022.2023
 Programme Code: MTEMP006 Master of Engineering
 Major Code: T166 ME Engineering with Business FT
 Programme Co-ordinator: Associate Professor Nikolaos Papakostas

Semester 1, Year 1 (Sept 2022)		Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)	Semester 2, Year 1 (Jan 2023)		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					
BMGT44310	Management and Organisational Behaviour		7.5		Dolores Smith Heffernan	BMGT30090	Entrepreneurship in Action		5		Orla Byrne
						MEEN41090	Engineering Decision Support Systems		5		Pezhman Ghadimi
						MEEN41100	Operations Management		5		Nikolaos Papakostas
Year 1: Students MUST SELECT ONE of the following 7.5cr ENGINEERING CORE Option (or Option module combinations) to be taken from list below						Year 1 CORE if not previously taken					
MEEN40790 + MEEN41130	Supply Chain Design and Analysis + Cases in Supply Chain Design	<i>both modules are co-requisites</i>		5.0 2.5	Vincent Hargaden	MEEN30140	Professional Engineering (Finance) (must be taken here if not already taken)			5	Pezhman Ghadimi
MEEN40800 + MEEN41110	Engineering Project Management Project Management Cases	<i>both modules are co-requisites</i>		5.0 2.5	Eamonn Ahearne						
MEEN41070	Introduction to Manufacturing Simulation & Robotics			7.5	Nikolaos Papakostas						
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		7.5	22.5			SEMESTER CREDIT TOTALS		15	15	
Semester 1, Year 2 (Sept 2022)		Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)	Semester 2, Year 2 (Jan 2023)		Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)
MEEN40930	Professional Work Placement (Autumn-Spring)		20		Nikolaos Papakostas	MEEN40430	Professional Engineering (Management)		5		Eamonn Ahearne
MEEN41080	ME Eng. with Business Thesis (Autumn-Spring)		10		Nikolaos Papakostas	MEEN41080	ME Eng. with Business Thesis (Autumn-Spring)		10		Nikolaos Papakostas
						MIS40920	Business Information Systems Management		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 Engineering (NVC1)											
CVEN40760	Case Studies (C)			10	Eugene O'Brien						
	Select ONE Option Modules from the following:						Select THREE Option Modules from following:				
CVEN40610	Advanced Materials			5	Ciaran	CVEN40050	Design of Structures 3			5	E. O'Brien
CVEN40690	Civil Engineering Systems			5	David Ayala- Cabrera	CVEN40060	Transport Modelling			5	Paraic Carroll
CVEN40720	Geotechnics 3			5	Shane Donohue	CVEN40070	Water and Wastewater Treatment Processes	CVEN40700		5	Patrick Purcell
CVEN40780	Design of Structures 2			5	Eugene O Brien	CVEN40080	Hydraulic Engineering Design	CVEN30060		5	Fiachra O Loughlin
CVEN40830	Applied Hydrology			5	Fiachra O'Loughlin	CVEN40120	Bridge Engineering			5	E. O'Brien
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	Amanda Gibney
						MEEN40820	Technical Communications (online)			5	Barry Brophy
TECHNICAL OPTIONS: Electronic Engineering (NEC1)											
EEEN40010	Control Theory (C)	EEEN30110		5	Paul Curran		Select at least two Option Modules from following:				
EEEN40050	Wireless Systems (C)	EEEN30030		5	Brian Mulkeen	COMP40660	Advances in Wireless Networking	COMP 30040		5	Madhusanka Liyanage
	Select ONE Option Module from the following:					COMP47670	Data Science in Python (MD) (online)			5	Pádraig Cunningham
COMP41670	Software Engineering			5	Liliana Pasquale	EEEN30030	Electromagnetic Waves	EEEN20030		5	John Sheridan
EEEN40060	Digital Communications				Mark	EEEN30050	Signal Processing	EEEN30110		5	Le-Nam Tran

EEEN40130	Advanced Signal Processing	EEEN30050		5	Le-Nam Tran	EEEN40070	Neural Engineering			5	Madeleine Lowery
EEEN40150	Radio Frequency Electronics	EEEN30020 & EEEN30030		5	Anding Zhu	EEEN40280	Digital and Embedded Systems	EEEN40020 & EEEN30190		5	Brian Mulkeen
EEEN40310	Power Electronics Technology	EEEN20070 & EEEN30020 &		5	Terence O Donnell	EEEN40640	Optoelectronics	EEEN30030		5	John Sheridan
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	Lisa Ryan
EEEN40100	Power Electronics and Drives			5	Paul Cuffe	EEEN30070	Power System Engineering	ELEN20010 &		5	Damian Flynn
EEEN40110	Renewable Energy Systems			5	Nan Zhao	EEEN40090	Power System Design	EEEN30070		5	Alireza Sorudi
EEEN40550	Power Systems Dynamics and Control	EEEN30070, EEEN30090		5	Federico Milano	EEEN40120	Applications of Power Electronics	[EEEN30090 & EEEN40100 & EEEN30070] (co- requisite) & EEEN20090 & EEEN20020		5	Nan Zhao
TECHNICAL OPTIONS: Mechanical Engineering (WMC1)											
MEEN40010	Engineering Thermodynamics III (C)			5	David	CHEN40560	Process Control (C)			5	Niall English
MEEN40030	Manufacturing Engineering II (C)			5	Eamonn	Select at least one Option Module from following:					
MEEN40050	Computational Continuum Mechanics I (C)			5	Alojz Ivankovic	MEEN40110	Advanced Polymer Engineering			5	Nan Zhang
						MEEN40670	Technical Communication			5	Barry Brophy
						MEEN41150	Advanced Metals Processing			5	David Browne



