Curriculum 2022.2023

Programme Code: MTEMP006 Master of Engineering Major Code: T166 ME Engineering with Business FT

	dinator: Associate Professor Nikolaos Papakostas										
		Pre-Requisite: UCD Module	Core	Option	Staff (Module			Pre-Requisite: UCD Module	Core	Option	Staff (Module Co-
	Semester 1, Year 1 (Sept 2022)	Code No.	Credits	Credits			Semester 2, Year 1 (Jan 2023)	Code No.	Credits	Credits	ord)
	Year 1: BUSINESS & ENGINEERING CORE Module	s - all to be taken					Year 1: BUSINESS & ENGINEERING	CORE Modules - al	I to be take	en	,
					Dolores Smith						
MGT44310	Management and Organisational Behaviour	_	7.5		Heffernan	BMGT30090 MEEN41090	Entrepreneurship in Action		5		Orla Byrne Pezhman Ghadimi
						IVIEEN4 1090	Engineering Decision Support Systems		5		Peznman Gnadimi
						MEEN41100	Operations Management		5		Nikolaos Papakost
ear 1: Students N	MUST SELECT ONE of the following 7.5cr ENGINEERING CORE Option	(or Option module	combination	ons) to be	taken from list						
	below						Year 1 CORE if not p	previously taken			
/IEEN40790 +	Supply Chain Design and Analysis +	both modules		5.0	Vincent						
MEEN41130	Cases in Supply Chain Design	are co-requisites		2.5	Hargaden	MEEN30140	Professional Engineering (Finance) (must be taken her	e if not already taken)		5	Pezhman Ghadimi
MEEN40800 +	Engineering Project Management	both modules		5.0	Eamonn						
MEEN41110	Project Management Cases	are co-requisites		2.5	Ahearne						
					Nikolaos						
IEEN41070	Introduction to Manufacturing Simulation & Robotics			7.5	Papakostas						
TECHNICAL OPT	TIONS ACCOUNTING FOR 15 CREDITS TO BE TAKEN FROM WITHIN TH	IE ME GROUPS BE	ELOW				· 1: TWO TECHNICAL OPTIONS (10 CREDITS) TO B INLESS MEEN 30140 Professional Engineering (Fir				
	Technical Module 1			5		(3	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	
	2000	Pre-Requisite: UCD Module	Core	Option	Staff (Module		Outstand Version (Inc. 2000)	Pre-Requisite: UCD Module	Core	Option	Staff (Module Co-
	Semester 1, Year 2 (Sept 2022)	Code No.	Credits	Credits	Co-ord) Nikolaos		Semester 2, Year 2 (Jan 2023)	Code No.	Credits	Credits	ord)
IEEN40930	Professional Work Placement (Autumn-Spring)		20		Papakostas	MEEN40430	Professional Engineering (Management)		5		Eamonn Ahearne
MEEN41080	ME For with Dunings Thesis (Autumn Coring)		10		Nikolaos	MEEN41080	ME Eng. with Business Thesis (Autumn-Spring)		10		Nikolaos Papakost
ILEIN4 1000	ME Eng. with Business Thesis (Autumn-Spring)	+	10		Papakostas	MIS40920	Business Information Systems Management		7.5		Clare Branigan
	SEMESTER CREDIT TOTALS		30			MKT40970	Marketing Management ME (Business)		7.5		Aisling Roche
	SEMESTER CREDIT TOTALS		30	Voor 1	TECHNICALO	MKT40970					
	ONS (CONCENTRATIONS): MINIMUM 30 CREDITS TO BE TAKEN FROM TO ACADEMIC, TIMETAL	I WITHIN THE FOU	IR TECHNIC	AL OPTIO	: TECHNICAL OI N GROUPS BEI	MKT40970 PTIONS LOW. MODULES	Marketing Management ME (Business) SEMESTER CREDIT TOTALS	SORY AND MUST B	7.5 30	SELECTION	Aisling Roche
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VEN40610	ONS (CONCENTRATIONS): MINIMUM 30 CREDITS TO BE TAKEN FROM TO ACADEMIC, TIMETAL ONS: Civil Engineering (NVC1) Case Studies (C) Select ONE Option Modules from the following: Advanced Materials	I WITHIN THE FOU	IR TECHNIC	AL OPTIO ONSTRAIN	N GROUPS BEILITS AND MUST E Eugene O'Brien Ciaran David Ayala-	MKT40970 PTIONS LOW. MODULES BE MADE IN CON.	Marketing Management ME (Business) SEMESTER CREDIT TOTALS HIGHLIGHTED IN YELLOW BELOW ARE COMPULS JUNCTION WITH THE COURSE COORDINATOR. Select THREE Option Modules from following: Design of Structures 3	SORY AND MUST BI	7.5 30	5	Aisling Roche WILL BE SUBJECT
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VEN40690 VEN40720 VEN40780 VEN4080 VEN4080 VEN4080	ONS (CONCENTRATIONS): MINIMUM 30 CREDITS TO BE TAKEN FROM TO ACADEMIC, TIMETAL ONS: Civil Engineering (NVC1) Case Studies (C) Select ONE Option Modules from the following: Advanced Materials Civil Engineering Systems Geotechnics 3 Design of Structures 2 Applied Hydrology	I WITHIN THE FOULLING AND PRERE	IR TECHNIC	10 5 5 5 5	N GROUPS BELITS AND MUST IE Eugene O'Brien Ciaran David Ayala-Cabrera Shane Donohue Eugene O Brien Flachra O'Loughlin	MKT40970 PTIONS LOW. MODULES IBE MADE IN CON. CVEN40050 CVEN40060 CVEN40070 CVEN40080 CVEN40120 CVEN40570	Marketing Management ME (Business) SEMESTER CREDIT TOTALS HIGHLIGHTED IN YELLOW BELOW ARE COMPULS JUNCTION WITH THE COURSE COORDINATOR. Select THREE Option Modules from following: Design of Structures 3 Transport Modelling Water and Wastewater Treatment Processes Hydraulic Engineering Design Bridge Engineering Geotechnics 4 Water, Waste & Environmental modelling	CVEN40700	7.5 30	5 5 5 5 5 5 5	E. O'Brien Patrick Purcell Fiachra O Loughlir E. O'Brien Donohue Fiachra O Loughlir
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ECHNICAL OPTIC EVEN40760 EVEN40610 EVEN40690 EVEN40720 EVEN40780 EVEN40780 EVEN40830 MEEN40820	ONS (CONCENTRATIONS): MINIMUM 30 CREDITS TO BE TAKEN FROM TO ACADEMIC, TIMETAE ONS: Civil Engineering (NVC1) Case Studies (C) Select ONE Option Modules from the following: Advanced Materials Civil Engineering Systems Geotechnics 3 Design of Structures 2 Applied Hydrology Technical Communications (online) ONS: Electronic Engineering (NEC1) Control Theory (C) Wireless Systems (C)	EEEN30110	IR TECHNIC	10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Eugene O'Brien Ciaran David Ayala- Cabrera Shane Donohue Eugene O Brien Paul Curran	MKT40970 PTIONS LOW. MODULES IS BE MADE IN CON. CVEN40050 CVEN40060 CVEN40070 CVEN40120 CVEN40210 CVEN40210 CVEN40210 CVEN40270 CVEN40270 CVEN40270 CVEN40270 CVEN40660	Marketing Management ME (Business) SEMESTER CREDIT TOTALS HIGHLIGHTED IN YELLOW BELOW ARE COMPULS JUNCTION WITH THE COURSE COORDINATOR. Select THREE Option Modules from following: Design of Structures 3 Transport Modelling Water and Wastewater Treatment Processes Hydraulic Engineering Design Bridge Engineering Geotechnics 4 Water, Waste & Environmental modelling Highway Engineering Technical Communications (online) Select at least two Option Modules from following: Advances in Wireless Networking	CVEN40700 CVEN30060	7.5 30	5 5 5 5 5 5 5 5 5 5	E. O'Brien Paraic Carroll Patrick Purcell Fiachra O Loughlin E. O'Brien Shane Donohue Fiachra O Loughlin Amanda Gibney Barry Brophy

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EEEN40130	Advanced Signal Processing	EEEN30050	5	Le-Nam Tran	EEEN40070	Neural Engineering		5	Madeleine Lowery
						J J			
		EEEN30020 &					EEEN40020 &		
EEEN40150	Radio Frequency Electronics	EEEN30030	5	Anding Zhu	EEEN40280	Digital and Embedded Systems	EEEN30190	5	Brian Mulkeen
		EEEN20070 &		Terence O					
EEEN40310	Power Electronics Technology	EEEN30020 &	5	Donnell	EEEN40640	Optoelectronics	EEEN30030	5	John Sheridan
	ONS: Electrical Engineering (NEC2)								
EEEN40010	Control Theory (C)		5	Paul Curran		Select at least two Option Modules from fo	llowing:		
	Select TWO Option Modules from the following:				COMP47670	Data Science in Python MD (online)		5	Pádraig Cunningham
1									
1									
1									
1									
EEEN40080	Power System Operation	EEEN20090	5	Damian Flynn		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
							[EEEN30090 &		
							EEEN40100 &		
1							EEEN30070] (co-		
		555100000					requisite) &		
EEEN40550	Barrer Oratores Directories and Oratori	EEEN30070, EEEN30090	5	Federico Milano		Applications of Basses Electronics	EEEN20090 &	5	Nan Zhao
EEEN40550	Power Systems Dynamics and Control	EEEN30090	5	IVIIIano	EEEN40120	Applications of Power Electronics	EEEN20020	5	Nan Znao
TECHNICAL OBT	ONS: Mechanical Engineering (WMC1)								
MEEN40010	Engineering Thermodynamics III (C)		5	David	CHEN40560	Process Control (C)		5	Niall English
MEEN40030	Manufacturing Engineering II (C)		5	Eamonn	OI ILINAUUU	Select at least one Option Module from foll	owing:		THUI LIIGHOIT
MEEN40050	Computational Continuum Mechanics I (C)		5	Alojz Ivankovic	MEEN40110	Advanced Polymer Engineering	og.	5	Nan Zhang
	Comparational Continuant modification (O)			, soje ivankovio	MEEN40670	Technical Communication		5	Barry Brophy
					MEEN41150	Advanced Metals Processing		5	David Browne
<u> </u>						, tavarious motato i roccissing		, ,	David Diowile
4									
1					II				