

Curriculum  
2016 V.6 Approved  
Programme Code: MTEMP006 Master of Engineering  
Major Code: T298 ME Civil, Structural and Environmental Engineering FT  
Programme Co-ordinator: Dr P.J. Purcell

Semester 1, Year 1				Semester 2, Year 1				
		Core Credits	Option Credits	Staff (Module Co-ordinator)		Core Credits	Option Credits	Staff (Module Co-ordinator)
<b>Semester 1, Year 1 Core Modules:</b>				<b>Semester 2, Year 1 Option Modules</b>				
CVEN40150	Structural Analysis, Design and Specification	5		A. Gonzalez	<b>Professional Work Experience Option</b>			
CVEN40720	Geotechnical Engineering	5		Kenneth Gavin	CVEN40730	Professional Work Experience (January to August - see note below*)	30	John O'Sullivan
CVEN40320	Case Studies	5		Eugene O'Brien	<b>OR:</b>			
CVEN40690	Civil Engineering Systems	5		Michael Bruen	<b>Design Project + Taught Module Option</b>			
CVEN40390	Innovation Leadership	5		Amanda Gibney				
<b>Semester 1, Year 1 Option Modules: Choose ONE Module from Option List Below:</b>				CVEN40500	Design Project		10	Aoife Aherne
			5		<b>Choose FOUR Modules from Option list below</b>			20
<b>SEMESTER CREDIT TOTALS</b>		<b>25</b>	<b>5</b>		<b>SEMESTER CREDIT TOTALS</b>		<b>0</b>	<b>30</b>
Semester 1, Year 2				Semester 2, Year 2				
		Core Credits	Option Credits	Staff (Module Co-ord)		Core Credits	Option Credits	Staff (Module Co-ord)
<b>Semester 1, Year 2 Core Modules:</b>				<b>Semester 2, Year 2 Core Module:</b>				
CVEN40540	Engineering Research Project [Year-long]	10		Paul Fanning	CVEN40540	Engineering Research Project [Year-Long]	15	Paul Fanning
STAT40690	Quantitative Methods for Engineers	5		Patrick Murphy	CVEN40710	Highway Engineering	5	Amanda Gibney
					CVEN40700	Water Engineering	5	Patrick Purcell
<b>Semester 1, Year 2 Option Modules: Choose THREE Modules from Option List Below:</b>				<b>Semester 2, Year 2 Option Modules: Choose ONE Module from Option List Below:</b>				
	Option Modules		15			Option Modules	5	
<b>SEMESTER CREDIT TOTALS</b>		<b>15</b>	<b>15</b>		<b>SEMESTER CREDIT TOTALS</b>		<b>25</b>	<b>5</b>
<b>Semester 1 Option Modules:</b>				<b>Semester 2 Option Modules:</b>				
AESC40080	EIS & Strategic Environmental Assessment		5	David Fry	BSEN40110	Advanced Air Pollution	10	Tom Curran
BSEN30240	Waste management		5	Tom Curran	CVEN30110	Transportation Engineering	5	Aoife Aherne
CVEN40300	Advanced Structural Analysis and Design		5	Eugene O'Brien	CVEN40520	Peer Assisted Tutoring in CSEE	5	Aoife Aherne
CVEN40390	Innovation Leadership (Year 2 Option Only in 2016/17 - Core for Year 1)		5	Amanda Gibney	CVEN40070	Unit Treatment Process in Water Engineering	5	Yaqian Zhao
CVEN40520	Peer Assisted Tutoring in CSEE		5	Aoife Aherne	CVEN40080	Hydraulic Engineering Design	5	Michael Bruen
CVEN40550	Structural Dynamics		5	Paul Fanning	CVEN40120	Bridge Engineering	5	Eugene O'Brien
CVEN40610	Fibre Reinforced Composites		5	Ciaran Mc Nally	CVEN40210	Soil Mechanics and Geotechnical Eng	5	Mike Long
ENVB40040	Environmental Impact Assessment (Biology & Environmental Sci)		5	Tasman Crowe	CVEN40050	Structural Design (Buildings)	5	Debra Laefer
MEEN30140	Professional Engineering Finance		5	Vincent Hargaden	CVEN40060	Transport Operations and Planning	5	Aoife Aherne
MEEN40050	Computational Continuum Mechanics I		5	Alojz Ivankovic	CVEN40570	Water, Waste and Environmental Modelling	5	Michael Bruen
PEP40100	Geographical information systems		5	Z. Nedovic-Budic	CVEN40580	Integrated Municipal Solid Waste Management	5	Yaqian Zhao
ARCT40030	Realising Built Projects		5	D. Jones	OSH40140	Environmental Assmt and Mgmt	5	C.Buggy
OSH40160	Environmental Leg and Regs		5	C.Buggy	STAT30270	Statistical Data Mining	5	Thomas Murphy
<b>Note re CVEN40730 Professional Work Experience:</b> Students should initially register to CVEN40730 Professional Work Experience as their Option Module for Semester 2, Year 1 of the ME. During Semester 1 (Year 1 of the ME), students will be expected to submit their CV to prospective employers under the guidance of the Internship Manager. Professional Work Experience opportunities will be offered by employers and the allocation of places is on the basis of competitive interview with the prospective employer. In the event that a student is unsuccessful in securing a Professional Work Experience, the student will be required to register for the alternative Option for Semester 2, Year 1 of the ME, i.e. CVEN40500 Design Project and four 5-credit option modules.				MEEN40430	Professional Engineering (Management)		5	Eamonn Ambrose
				OSH40150	Introduction to Environmental Science		5	Conor Buggy