

Curriculum 2017 V.1 Approved
 Programme Code: MTEMP006 Master of Engineering
 Major Code: T165 ME Mechanical Engineering FT
 Programme Coordinator: Dr Malachy O'Rourke

Semester 1, Year 1		Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)	Semester 2, Year 1 (10-Credit PWE)		Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)
Six modules from the lists below. Note 1: All core modules denoted (C) must be taken before completion of ME programme Note 2: Either EEEN40010 or CHEN30140 must be taken before completion of ME programme			25	5		MEEN40710	ME Mechanical Engineering Professional Work Experience or Equivalent (e.g. Summer Work, Work with UCD Research Group on a part-time basis, group design project??)		10		AI
							Four modules from the lists below. Note 1: All core modules denoted (C) must be taken before completion of ME programme Note 2: Either EEEN40010 or CHEN30140 must be taken before completion of ME programme		20		
SEMESTER CREDIT TOTALS			25	5		SEMESTER CREDIT TOTALS			10	0	
Semester 1, Year 2		Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)	Semester 2, Year 2		Pre-Requisite: UCD Module Code No.	Core Credits	Option Credits	Staff (Module Co-ord)
MEEN40700	Research Project / Thesis (C) - Part 1		10		KS	MEEN40700	Research Project / Thesis (C) - Part 2		15		KS
MEEN40560	Research Skills and Techniques (C)		5		DB						
Three modules from the lists below. Note 1: All core modules denoted (C) must be taken before completion of ME programme Note 2: Either EEEN40010 or CHEN30140 must be taken before completion of ME programme			10	5		Three modules from the lists below. Note 1: All core modules denoted (C) must be taken before completion of ME programme Note 2: Either EEEN40010 or CHEN30140 must be taken before completion of ME programme			10	5	
SEMESTER CREDIT TOTALS			25	5		SEMESTER CREDIT TOTALS			25	5	
Core Modules						Core Modules					
MEEN40010	Engineering Thermodynamics III (C)		5		DJT	MEEN40190	Mechanics of Fluids III (C)	MEEN40020	5		MOR
MEEN40020	Mechanics of Fluids II (C)		5		MOR	MEEN40430	Professional Engineering (Management) (C)		5		EA
MEEN40030	Manufacturing Engineering II (C)		5		GB						
MEEN40050	Computational Continuum Mechanics I (C)		5		AI						
MEEN40060	Fracture Mechanics (C)		5		NM						
MEEN40150	Computational Continuum Mechanics II (C)	MEEN40050	5		AI						
MEEN40170	Mechanics of Solids III (C)		5		NM						
Optional Modules						Optional Modules					
EEEN40010	Control Theory (O)			5	PCu	CHEN40560	Process Control (O)			5	NE
MEEN20050	Heat Transfer (O)			5	DF	MEEN40040	Material Science & Engineering III (O)			5	KS
MEEN40080	Technical Ceramics (O)			5	AC	MEEN40070	Advanced Metals/Materials Processing (O)			5	DB/KS
MEEN40090	Energy Systems and Climate Change (O)			5	WJS	MEEN40110	Advanced Composites and Polymer Engineering (O)			5	MG
MEEN40160	Kinetics & Thermodynamics of Materials (O)			5	DB	MEEN40180	Nanomaterials (O)			5	DD
MEEN40670	Technical Communications (O)			5	BB	MEEN40670	Technical Communications (O)			5	BB
MEEN40210	Energy in Transport (O)			5	DJT	MEEN40820	Technical Communications (online)			5	BB
ACM40290	Numerical Algorithms (O)			5	E Cox						
STAT40690	Quantitative Methods for Engineers (O)			5	P.Murphy						

Staff Initials: Identification Code:

WJS	Dr. William Smith
DJT	Dr. David Timoney
GB	Prof. Gerry Byrne
AI	Prof. Alojz Ivankovic
PC	Dr. Paul Curran
NM	Dr. Neal Murphy
KS	Dr. Ken Stanton
AC	Dr. Alun Carr

EA	Mr. Eamonn Ambrose
DB	Dr. David Browne
MOR	Dr. Malachy O'Rourke
MG	Prof. Michael Gilchrist
DD	Dr. Denis Dowling
PCo	Mr Pat Connolly
TBD	To be decided
ALL	Project supervisors, drawn from wide range of UCD Academic staff

Year 1	Sem 1	Sem 2	Total Modules	Total Credits for Year
Sem 1 = 6 x 5 credit modules = 30 credits	30		6	30
Sem 2 = 1 x 10-credit PWE & 4 x 5 credit = 20 credits		30	5	30
Total Modules for Year 1	30	30	11	60
Year 2	Sem 1	Sem 2	Total Modules	Total Credits for Year
Year -long project x 25 credits	25		1	25
Sem 1: Research Skills & Techniques	5		1	5
Sem 1: 3 x 5-credit modules = 15	15		3	15
Sem 2: 4 x 5-credit modules = 20		15	3	15
Total Modules for Year 2	45	15	8	60
			18	120