

Curriculum 2017
 Programme Code: MTEMP006 Master of Engineering
 Major Code: T275 ME Materials Science and Engineering FT
 Programme Coordinator: Dr Kenneth Stanton

V.1 Approved

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)
IMPORTANT NOTE: AT LEAST 100 LEVEL 4 CREDITS MUST BE TAKEN											
Six modules from the lists below. Note 1: All core modules denoted (C) must be taken before completion of ME programme			25	5		MEEN40750	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		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)
MEEN40740	Research Project / Thesis (C) - Part 1		10		KS	MEEN40740	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			10	5		Three modules from the lists below. Note 1: All core modules denoted (C) must be taken before completion of ME programme			10	5	
SEMESTER CREDIT TOTALS			25	5		SEMESTER CREDIT TOTALS			25	5	
Core Modules						Core Modules					
MEEN40090	Energy Systems and Climate Change (C)		5		WJS	MEEN40040	Material Science & Engineering III (C)		5		KS
MEEN30090	Material Science and Engineering II (C)*		5		KS	MEEN40110	Advanced Composites and Polymer Engineering (C)		5		MG
MEEN40080	Technical Ceramics (C)		5		AC	MEEN30140	Professional Engineering (Finance) (C)*		5		DH
EEEN20070	Solid-State Electronics I (C)*		5		TB						
MEEN40060	Fracture Mechanics (C)		5		NM						
MEEN40180	Kinetics & Thermodynamics of Materials (C)		5		DB						
Optional Modules						Optional Modules					
MEEN40050	Computational Continuum Mechanics I (O)			5	AI	MEEN40070	Advanced Metals/Materials Processing (O)			5	DB/KS
MEEN40030	Manufacturing Engineering II (O)			5	GB	MEEN40180	Nanomaterials (O)			5	DD
MEEN40600	Medical Device Design (O)			5	DFP	MEEN40430	Professional Engineering (Management) (O)			5	EA
MEEN40630	Biomaterials (O)			5	KS	CHEN40510	Advanced Characterisation Techniques (O)			5	IR
CHEM30090	Chemistry of Materials (O)			5	WR						
PHYC40410	Physics of nanomaterials (O)			5	JR						

* Denotes a module which must be taken if it hasn't already been taken. If it has been taken then an additional option must be taken in its place.

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
TB	Prof. Thomas Brazil
DFP	Prof. David FitzPatrick
MR	Dr. Mark Richardson
PS	Prof. Pat Shannon
IR	Dr. Ian Reid

ALL Project supervisors, drawn from wide range of UCD Academic staff

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
BR	Dr Brian Rodriguez
JR	Dr James Rice
VH	Dr Vincent Hargaden
JFM	Dr Julian Menuge
SQ	Susan Quinn

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