

Major Code: T164 UCD Master of Engineering (ME) in Energy Systems Engineering
Sample Modular Structure for 12-Month 90-Credit Programme (Guidance Notes for UCD BE (Mechanical) Graduates)

Semester 1						Semester 2					
	Comment	Core Credits	Option Credits	Sem-ester		Comment	Core Credits	Option Credits	Sem-ester		
MEEN40090	Energy Systems & Climate Change (unless already taken)	5		1	CHEN40440	Chemical Processes of Sustainable and Renewable Energy	5		2		
EEEN40080	Power System Operation	5		1	MEEN40200	Energy Systems in Buildings II	5		2		
GEOL40310	Fossil Fuels, Carbon Capture & Storage	5		1	MEEN40190	Mechanics of Fluids III	Pre-requisites apply	5	2		
EEEN40400	Wind Energy	5		1	MEEN40110	Advanced Composites and Polymer Engineering		5	2		
MEEN40560	Research Skills and Techniques	5		1	MEEN40180	Nanomaterials		5	2		
MEEN40210	Energy in Transport		5	1	MEEN40670	Technical Communication		5	2		
MEEN40010	Eng. Thermodynamics III		5	1	MEEN40820	Technical Communication (online)		5	2		
MEEN40150	Computational Continuum Mechanics II		5	1	PHYC30090	Nuclear Physics		5	2		
MEEN40160	Kinetics & Thermodynamics of Materials		5	1	BSEN30030	Air Pollution		5	2		
EEEN40010	Control Theory		5	1							
CVEN20030	Environmental Engineering Fundamentals		5	1	EEEN40120	Applications of Power Electronics	Pre-requisites apply	5	2		
MEEN40670	Technical Communication		5	1	EEEN30070	Power System Engineering	Pre-requisites apply	5	2		
MEEN40820	Technical Communication (online)		5	1	BMGT30090	Entrepreneurship in Action		5	2		
EEEN 30090	Electrical Machines	Pre-requisites apply	5	1	ECON42360	Energy Economics and Policy		5	2		
EEEN40100	Power Electronics and Drives	Pre-requisites apply	5	1							
EEEN40550	Power System Dynamics & Control	Pre-requisites apply	5	1							
EEEN40310	Power Electronics Technology	Pre-requisites apply	5	1							
EEEN40300	Entrepreneurship in Engineering		5	1							
EEEN40580	Optimisation Techniques for Engineers		5	1							
EEEN40090	Power System Design	Pre-requisites apply	5	1							
	SEMESTER CREDIT TOTALS		25	5		SEMESTER CREDIT TOTALS	10	20			
	Semester 3 (SUMMER)	Comment	Core Credits	Option Credits	Sem-ester						
MEEN40550	ME (Energy) Research Project Summer - 90 Credit Programme		30		3						
	SEMESTER CREDIT TOTALS		30								