

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 (Electrical / Electronic) 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	BMGT30090	Entrepreneurship in Action		5	2		
EEEN40400	Wind Energy	5		1	MEEN40670	Technical Communication		5	2		
MEEN40560	Research Skills and Techniques*	5		1	MEEN40820	Technical Communication (online)		5	1		
MEEN30100	Engineering Thermodynamics II	5		1	PHYC30090	Nuclear Physics		5	2		
MEEN40010	Engineering Thermodynamics III		5	1	BSEN30030	Air Pollution		5	2		
MEEN40020	Mechanics of Fluids II		5	1	EEEN40120	Applications of Power Electronics	Pre-requisites apply	5	2		
CVEN20030	Environmental Engineering Fundamentals		5	1	EEEN30070	Power System Engineering	Pre-requisites apply	5	2		
MEEN 20050	Heat Transfer		5	1	ECON42360	Energy Economics and Policy		5	2		
EEEN 30090	Electrical Machines	Pre-requisites apply	5	1							
EEEN40100	Power Electronics and Drives	Pre-requisites apply	5	1							
MEEN40670	Technical Communication		5	1							
MEEN40820	Technical Communication (online)		5	1							
EEEN40550	Power System Dynamics & Control	Pre-requisites apply	5	1							
EEEN40310	Power Electronics Technology	Pre-requisites apply	5	1							
EEEN40090	Power System Design	Pre-requisites apply	5	1							
EEEN40580	Optimisation Techniques for Engineers		5	1							
MEEN40210	Energy in Transport		5	1							
EEEN40300	Entrepreneurship in Engineering		5	1							
SEMESTER CREDIT TOTALS		30	5		SEMESTER CREDIT TOTALS		10	20			
Semester 3 (SUMMER)											
	Comment	Core Credits	Option Credits	Sem-ester							
Option Rule:	Students must register for one of the following Research Project Modules										
EEEN40360	ME (Electrical Energy) Project - 90 Credit Programme (Summer)*	30		3							
MEEN40550	ME (Energy) Research Project - 90 Credit Programme (Summer)	30		3							
SEMESTER CREDIT TOTALS		35									