Curriculum 2017

V.4 EPB Approved

T274 **ME Electrical Energy Engineering**

Structure for 2017-18

Modules shown in semesters 3 & 4 represent the current plan, and may change in 2018-19, depending on availability of modules.

Programme plan shown separately for long and short work placement options.

Long Work	Placement		
Long Work	Semester 1		Semester 2
Code	Module	Code	Module
EEEN40010	Control Theory	EEEN40190	Professional Work Experience
EEEN40080	Power System Operation	LLLIN40190	(30 credits)
EEEN40110	Renewable Energy Systems		(50 credits)
EEEN40550	Power System Dynamics and Control		
EEEN40330	Fower System Dynamics and Control		
	2 options from		
ACM40290	Numerical Algorithms		
EEEN40300	Entrepreneurship in Engineering		
EEEN40310	Power Electronics Technology		
EEEN40580	Optimisation Techniques for Engineers		
GEOL40310	Fossil Fuels, Carbon Capture and Storage		
MEEN30100	Engineering Thermodynamics II		
MEEN40090	Energy Systems & Climate Change		
	Semester 3		Semester 4
Code	Module	Code	Module
EEEN40260	Project	EEEN40260	Project
		EEEN40120	Applications of Power Electronics
EEEN40100	Power Electronics and Drives	MEEN40430	Professional Engineering (Mgt)
EEEN40090	Power System Design		
	2 or 1 options from		1 or 2 options from
ACM40290	Numerical Algorithms	ECON42360	Energy Economics and Policy
COMP30040	Networks and Internet Systems	EEEN40560	High Voltage and Protection Systems
EEEN40300	Entrepreneurship in Engineering	EEEN40590	Distributed Control and Optimisation over Networks
EEEN40310	Power Electronics Technology		
EEEN40580	Optimisation Techniques for Engineers		
GEOL40310	Fossil Fuels, Carbon Capture and Storage		
MEEN30100	Engineering Thermodynamics II		
MEEN40090	Energy Systems & Climate Change		
Short Work	Placement		
	Semester 1		Semester 2
Code	Module	Code	Module
EEEN30090	Electrical Machines	EEEN40180	Professional Work Experience
EEEN40010	Control Theory		(10 credits)

	Semester 1		Semester 2
Code	Module	Code	Module
EEEN30090	Electrical Machines	EEEN40180	Professional Work Experience
EEEN40010	Control Theory		(10 credits)
EEEN40080	Power System Operation	EEEN30070	Power System Engineering
EEEN40110	Renewable Energy Systems	MEEN40430	Professional Engineering (Mgt)
EEEN40550	Power System Dynamics and Control		
			2 options from
	1 option from		
ACM40290	Numerical Algorithms		
COMP30040	Networks and Internet Systems	ECON42360	Energy Economics and Policy
EEEN40300	Entrepreneurship in Engineering	EEEN20060	Communications Systems
EEEN40310	Power Electronics Technology	EEEN30050	Signal Processing
EEEN40580	Optimisation Techniques for Engineers	EEEN40590	Distributed Control and Optimisation over Networks
GEOL40310	Fossil Fuels, Carbon Capture and Storage	MEEN30010	Applied Dynamics II
MEEN30100	Engineering Thermodynamics II		
MEEN40090	Energy Systems & Climate Change		
MEEN40090	Energy Systems & Climate Change		
MEEN40090	Energy Systems & Climate Change Semester 3		Semester 4
		Code	Semester 4 Module
Code	Semester 3	Code EEEN40260	
Code	Semester 3 Module		Module
Code	Semester 3 Module		Module
Code EEEN40260 EEEN40100	Semester 3 Module Project Power Electronics and Drives	EEEN40260	Module Project
Code EEEN40260 EEEN40100	Semester 3 Module Project	EEEN40260	Module Project
Code EEEN40260	Semester 3 Module Project Power Electronics and Drives Power System Design	EEEN40260	Module Project Applications of Power Electronics
Code EEEN40260 EEEN40100 EEEN40090	Semester 3 Module Project Power Electronics and Drives Power System Design 2 OR 3 options from	EEEN40260 EEEN40120	Module Project Applications of Power Electronics 2 OR 1 options from
Code EEEN40260 EEEN40100 EEEN40090	Semester 3 Module Project Power Electronics and Drives Power System Design 2 OR 3 options from Numerical Algorithms	EEEN40260 EEEN40120 ECON42360	Module Project Applications of Power Electronics 2 OR 1 options from Energy Economics and Policy
Code EEEN40260 EEEN40100 EEEN40090 ACM40290 COMP30040	Semester 3 Module Project Power Electronics and Drives Power System Design 2 OR 3 options from Numerical Algorithms Networks and Internet Systems	EEEN40260 EEEN40120 ECON42360 EEEN40560	Module Project Applications of Power Electronics 2 OR 1 options from Energy Economics and Policy High Voltage and Protection Systems
Code EEEN40260 EEEN40100 EEEN40090 ACM40290 COMP30040 EEEN40300	Semester 3 Module Project Power Electronics and Drives Power System Design 2 OR 3 options from Numerical Algorithms Networks and Internet Systems Entrepreneurship in Engineering	EEEN40260 EEEN40120 ECON42360	Module Project Applications of Power Electronics 2 OR 1 options from Energy Economics and Policy
Code EEEN40260 EEEN40100 EEEN40090 ACM40290 COMP30040 EEEN40300 EEEN40310	Semester 3 Module Project Power Electronics and Drives Power System Design 2 OR 3 options from Numerical Algorithms Networks and Internet Systems Entrepreneurship in Engineering Power Electronics Technology	EEEN40260 EEEN40120 ECON42360 EEEN40560	Module Project Applications of Power Electronics 2 OR 1 options from Energy Economics and Policy High Voltage and Protection Systems
Code EEEN40260 EEEN40090 ACM40290 COMP30040 EEEN40300 EEEN40310 EEEN40580	Semester 3 Module Project Power Electronics and Drives Power System Design 2 OR 3 options from Numerical Algorithms Networks and Internet Systems Entrepreneurship in Engineering Power Electronics Technology Optimisation Techniques for Engineers	EEEN40260 EEEN40120 ECON42360 EEEN40560	Module Project Applications of Power Electronics 2 OR 1 options from Energy Economics and Policy High Voltage and Protection Systems
Code EEEN40260 EEEN40100	Semester 3 Module Project Power Electronics and Drives Power System Design 2 OR 3 options from Numerical Algorithms Networks and Internet Systems Entrepreneurship in Engineering Power Electronics Technology	EEEN40260 EEEN40120 ECON42360 EEEN40560	Module Project Applications of Power Electronics 2 OR 1 options from Energy Economics and Policy High Voltage and Protection Systems

Registration Guidance for 2-Year ME Programme

You need to satisfactorily complete 120 module credits in order to achieve an ME degree
In each year of the programme you need to obtain 60 credits, normally consisting of 30 credits in each semester

All 'Core' modules MUST be selected, with the remaining module credits achieved by selecting an appropriate number of 'Option' modules from the defined list You will need to register yourself for the Core modules - this does not happen automatically. You also need to register for your chosen Option modules Selection of the long or short Professional Work Experience options, and other module options, will require the approval of the Programme Co-ordinator

The programme co-ordinator (Dr Damian Flynn) can be contacted by email at damian.flynn@ucd.ie (Office located at Room 155, Engineering and Materials Science Centre)