T335   **ME Electrical Power Engineering**   **Structure for 2024/2025**

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

Stage 1:
Long Work Placement

	Autumn Trimester		Spring - Summer Trimester
Code	**Module**	**Code**	**Module**
EEEN40010	Control Theory	EEEN40190	ME Electrical Power PWE Long
EEEN40080	Power System Operation		(30 credits)
EEEN40110	Renewable Energy Systems		
EEEN40550	Power System Dynamics and Control		
	2 options from		
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		

Stage 2:

	Autumn Trimester		Spring Trimester
Code	**Module**	**Code**	**Module**
EEEN40260	ME Electrical Project	EEEN40260	ME Electrical Project
	25 (10 in Aut, 15 in Spr)		25 (10 in Aut, 15 in Spr)
EEEN40100	Power Electronics and Drives	EEEN40120	Applications of Power Electronics
		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
EEEN40300	Entrepreneurship in Engineering	COMP47670	Data Science in Python (MD)
EEEN40310	Power Electronics Technology	MEEN30140	Professional Engineering (Finance)
EEEN40580	Optimisation Techniques for Engineers	***	Students wishing to take COMP47670 must select the
EEEN40720	Machine Learning for Engineers		Spring Trimester offering of this module.
GEOL40310	Fossil Fuels, Carbon Capture and Storage		

Stage 1:
Short Work Placement

	Autumn Trimester		Spring - Summer Trimester
Code	**Module**	**Code**	**Module**
EEEN30090	Electrical Machines	EEEN40180	ME Electrical Power PWE Short
EEEN40010	Control Theory		(10 credits) - Summer Trimester
EEEN40080	Power System Operation	EEEN30070	Power System Engineering
EEEN40110	Renewable Energy Systems	MEEN40430	Professional Engineering (Mgt)
EEEN40550	Power System Dynamics and Control		
	1 option from		**2 options from**
EEEN40300	Entrepreneurship in Engineering	COMP47670	Data Science in Python (MD)
EEEN40310	Power Electronics Technology	ECON42360	Energy Economics and Policy
EEEN40580	Optimisation Techniques for Engineers	EEEN30050	Signal Processing
GEOL40310	Fossil Fuels, Carbon Capture and Storage	MEEN30010	Applied Dynamics II
MEEN30100	Engineering Thermodynamics II	MEEN30140	Professional Engineering (Finance)
MEEN40090	Energy Systems & Climate Change		

Stage 2:

	Autumn Trimester		Spring Trimester
Code	**Module**	**Code**	**Module**
EEEN40260	ME Electrical Project	EEEN40260	ME Electrical Project
EEEN40100	Power Electronics and Drives	EEEN40120	Applications of Power Electronics
		EEEN40090	Power System Design
	2 OR 3 options from		**2 OR 1 options from**
ACM40290	Numerical Algorithms	ECON42360	Energy Economics and Policy
EEEN40300	Entrepreneurship in Engineering	COMP47670	Data Science in Python (MD)
EEEN40310	Power Electronics Technology	MEEN30140	Professional Engineering (Finance)
EEEN40580	Optimisation Techniques for Engineers	***	Students wishing to take COMP47670 must select the
EEEN40720	Machine Learning for Engineers		Spring Trimester offering of this module.
GEOL40310	Fossil Fuels, Carbon Capture and Storage		

Registration Guidance for 2-Year ME Programme
You need to satisfactorily complete 120 module credits in order to achieve an ME degree.
A taught masters programme in UCD must have at least 70 credits at Level 4.
In each year of the programme you need to obtain 60 credits, normally consisting of 30 credits in each trimester.
All 'Core' modules MUST be selected, with the remaining module credits achieved by selecting an appropriate number of 'Option' modules from the defined lists.
You may need to register yourself for some of 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 Director.
The Programme Director (Dr Damian Flynn) can be contacted by email at terence.odonnell@ucd.ie (Office located at Room 148, Engineering and Materials Science Centre).