

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

**Stage 1:****Long Work Placement**

Autumn Trimester	
Code	Module
EEEN40010	Control Theory
EEEN40080	Power System Operation
EEEN40110	Renewable Energy Systems
EEEN40550	Power System Dynamics and Control
<b>2 options from</b>	
COMP30040	Networks and Internet Systems
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

Spring - Summer Trimester	
Code	Module
EEEN40190	ME Electrical Power PWE Long (30 credits)

**Stage 2:**

Autumn Trimester	
Code	Module
EEEN40260	ME Electrical Project 25 (10 in Aut, 15 in Spr)
EEEN40100	Power Electronics and Drives
<b>2 or 1 options from</b>	
ACM40290	Numerical Algorithms
EEEN40300	Entrepreneurship in Engineering
EEEN40310	Power Electronics Technology
EEEN40580	Optimisation Techniques for Engineers
EEEN40720	Machine Learning for Engineers
GEOL40310	Fossil Fuels, Carbon Capture and Storage

Spring Trimester	
Code	Module
EEEN40260	ME Electrical Project 25 (10 in Aut, 15 in Spr)
EEEN40120	Applications of Power Electronics
MEEN40430	Professional Engineering (Mgt)
EEEN40090	Power System Design
<b>1 or 2 options from</b>	
ECON42360	Energy Economics and Policy
COMP47670	Data Science in Python (MD)
MEEN30140	Professional Engineering (Finance)
***	Students wishing to take COMP47670 must select the Spring Trimester offering of this module.

**Stage 1:****Short Work Placement**

Autumn Trimester	
Code	Module
EEEN30090	Electrical Machines
EEEN40010	Control Theory
EEEN40080	Power System Operation
EEEN40110	Renewable Energy Systems
EEEN40550	Power System Dynamics and Control
<b>1 option from</b>	
COMP30040	Networks and Internet Systems
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

Spring - Summer Trimester	
Code	Module
EEEN40180	ME Electrical Power PWE Short (10 credits) - Summer Trimester
EEEN30070	Power System Engineering
MEEN40430	Professional Engineering (Mgt)
<b>2 options from</b>	
COMP47670	Data Science in Python (MD)
ECON42360	Energy Economics and Policy
EEEN30050	Signal Processing
MEEN30010	Applied Dynamics II
MEEN30140	Professional Engineering (Finance)

**Stage 2:**

Autumn Trimester	
Code	Module
EEEN40260	ME Electrical Project
EEEN40100	Power Electronics and Drives
<b>2 OR 3 options from</b>	
ACM40290	Numerical Algorithms
EEEN40300	Entrepreneurship in Engineering
EEEN40310	Power Electronics Technology
EEEN40580	Optimisation Techniques for Engineers
EEEN40720	Machine Learning for Engineers
GEOL40310	Fossil Fuels, Carbon Capture and Storage

Spring Trimester	
Code	Module
EEEN40260	ME Electrical Project
EEEN40120	Applications of Power Electronics
EEEN40090	Power System Design
<b>2 OR 1 options from</b>	
ECON42360	Energy Economics and Policy
COMP47670	Data Science in Python (MD)
MEEN30140	Professional Engineering (Finance)
***	Students wishing to take COMP47670 must select the Spring Trimester offering of this module.

**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 [damian.flynn@ucd.ie](mailto:d Damian.flynn@ucd.ie) (Office located at Room 155, Engineering and Materials Science Centre).