

# ME PATHWAY (ELECTRICAL AND ELECTRONIC) ENGINEERING

## Programme Requirements

Code	Title	Credits
<b>Year 1 - Engineering</b>		
Students take <b>60</b> credits as follows:		
<i>Core Modules</i>		
CE1003	Introduction to Structural and Civil Engineering	5
CE1005	Engineering Computation and Problem Solving	5
CM1001	Chemistry for Engineers	5
EE1007	Introduction to Electrical and Electronic Engineering	5
MA1011	Mathematical Methods I	5
MA1012	Mathematical Methods II	5
ME1002	Engineering Thermodynamics	5
NE1001	Introduction to Energy Engineering	5
PE1003	Introduction to Process and Chemical Engineering	5
PY1006	Physics for Engineers II	5
PY1012	Physics for Engineers I	10
<b>Year 2 - Electrical and Electronic Engineering</b>		
Students take <b>60</b> credits as follows:		
<i>Core Modules</i>		
EG2002	Numerical Methods and Programming	5
CE2001	Solid and Structural Mechanics I	5
EE2011	Digital Electronics	5
EE2012	Linear Circuit Analysis	5
EE2013	Non-Linear Circuit Analysis	5
EE2014	Signals and Systems 1	5
EE2015	Signals and Systems 2	5
EE2016	Electrical Power Engineering I	5
EE2017	Electrical Power Engineering II	5
EE2020	Semiconductor Devices	5
MA2013	Mathematics for Engineering	5
ST1051	Introduction to Probability and Statistics	5
<b>Year 3 - Electrical and Electronic Engineering</b>		
Students take <b>60</b> credits as follows:		
<i>Core Modules</i>		
EE3011	Power Electronics & AC Machines and Systems	5
EE3012	Electric Vehicle Energy Systems	5
EE3013	Electromagnetic Fields for Engineers	5
EE3014	Signal Processing	5
EE3015	Telecommunications I	5
EE3016	Control Engineering I	5
EE3018	Analogue Integrated Circuits	5
EE3019	Digital Integrated Circuits	5
EE3020	Engineering Applications of Machine Learning	5
EE3022	Electronic Circuit Design	5
EE3023	Electronic Embedded Systems	5

ME3003	Mechanical Systems	5
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## Year 4 - ME Pathway Electrical and Electronic Engineering

Students take **60** credits as follows - all listed core modules (**30** credits) in Part A and a Placement module (**30** credits) in Part B:

### Core Modules

#### Part A

EE4002	Control Engineering II	5
EE4010	Electrical Power Systems	5
EE4014	Industrial Automation and Control	5
EE4016	Transmission Lines	5
EE4019	Photonic Signals and Systems Application	5
EE4022	Analogue IC Design	5

#### Part B

### Core Modules

EE6060	Electrical and Electronic Engineering Work Placement	30
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## Year 5 - ME (Electrical and Electronic) Engineering

ME (Electrical and Electronic) Engineering (<https://ucc-ie-public.courseleaf.com/programmes/meel/>)

<b>Total Credits</b>	<b>240</b>
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## Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.