ME (ENERGY) ENGINEERING

Code Title Credits Year 1 - Engineering Students take 60 credits as follows: Core Modules CE1003 Introduction to Structural and Civil Engineering 5 CE1005 Engineering Computation and Problem Solving 5 5 CE1007 Introduction to Electrical and Electronic Engineering 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 NE1003 Introduction to Process and Chemical Engineering 5 PY1006 Physics for Engineers I 5 PY1012 Physics for Engineers I 10 Year 2 - Energy Engineering 10 Students take 60 credits as follows: Core Modules EG2002 Numerical Methods and Programming 5 CE2003 Fluids I 5 EE2014 Signals and Structural Mechanics I 5 CE2003 Fluid	Programme Requirements			
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Year 4 - ME Pathway Energy Engineering	NE3005		5	
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credits) in Part A and a Placement module (30 credits) in Part B:

Part A		
Core Modules		
EE4001	Energy Systems, Power Electronics and Drives	5
EE4002	Control Engineering II	5
EE4010	Electrical Power Systems	5
EE4014	Industrial Automation and Control	5
NE4002	Wind Energy	5
NE4008	Photovoltaic Systems	5
Part B		
Core Modules		
NE6060	ME Energy Placement	30
Year 5		
	credits as follows - all listed core modules (45	
,	ive modules to the value of 15 credits:	
Core Modules		_
NE4007	Computer Aided Design VII (Heating, Ventilation and Air Conditioning)	5
NE6005	Ocean Energy	5
NE6014	Energy Innovation	5
NE6015	Data Analytics for Engineering	5
NE6016	Energy Systems in Buildings	5
NE6017	ME Energy Engineering Project	20
Elective Modules		15
Students take mo	odules to the value of 15 credits from the following:	
CE4024	Progressing Toward Sustainable Industry (5)	
CE6043	Harbour and Coastal Engineering (5)	
CS6322	Optimisation (5)	
MG4052	Management in Practice (5)	
NE6004	Sustainability, Bioenergy and Circular Economy Systems (5)	
NE6010	Offshore Wind Energy (5)	
NE6212	Clean Energy Futures (5)	
EE6048	Smart Grids (5)	
Total Credits		300

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*.