ME (CIVIL, STRUCTURAL AND ENVIRONMENTAL) ENGINEERING

Programme Requirements

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
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 1	10
Year 2 - Civil, Structural and Environmental Engineering		
Students take **60** credits as follows:		
Core Modules		
EG2001	Engineering Mechanics with Transform Methods	5
EG2002	Numerical Methods and Programming	5
CE2001	Solid and Structural Mechanics I	5
CE2002	Solid and Structural Mechanics II	5
CE2003	Fluids I	5
CE2004	Fluids II	5
CE2005	Surveying - Theory and Practice	5
CE2007	Design Studio I	5
CE2009	BIM 1: Modelling and Visualisation	5
MA2013	Mathematics for Engineering	5
PE2003	Heat Transfer	5
ST1051	Introduction to Probability and Statistics	5
Year 3 - Civil, Structural and Environmental Engineering		
Students take **60** credits as follows:		
Core Modules		
CE3002	Solid and Structural Mechanics III	5
CE3003	Design Studio II (Steel and Timber)	5
CE3004	Mechanics of Soils I	5
CE3005	Mechanics of Soils II	5
CE3006	Construction Project Management	5
CE3007	Hydraulics I	5
CE3008	Design Studio III (Structural Concrete)	5
GL3006	Geology for Engineers	5
CE3009	Environmental Engineering	5
CE3010	Energy in Buildings	5
CE3012	Materials and Sustainability	5
CE4012	Traffic and Highways	5
Year 4 - ME Pathway Civil, Structural and Environmental 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:		
Part A		
Core Modules		
CE4004	Design Studio IV (Reinforced Concrete)	5
CE4006	Structural Analysis	5
CE4007	Geotechnical Engineering	5
CE4026	Environmental Design Studio	10
CE4015	Environmental Hydraulics	5
Part B		
Core Modules		
CE6008	ME Work Placement	30
Year 5 - ME (Civil, Structural and Environmental Engineering)		
Students take **60** credits as follows – all listed core modules (**40** credits) and **20** credits of elective modules:		
Core Modules		
CE6009	ME Dissertation	20
CE6040	Civil Engineering Systems	5
CE6033	ME Design Project	5
MG4052	Management in Practice	5
NE6004	Sustainability, Bioenergy and Circular Economy Systems	5
Elective Modules		
Students take modules to the value of **20** credits from:		20
CE4015	Environmental Hydraulics (5)	
CE4024	Progressing Toward Sustainable Industry (5)	
CE6024	Finite Element Analysis (5)	
CE6042	Transportation and Energy (5)	
CE6043	Harbour and Coastal Engineering (5)	
CE6044	Prestressed Concrete (5)	
CE6052	Sustainable Reuse of Existing Buildings (5)	
NE6013	Sustainable Energy (5)	
NE6015	Data Analytics for Engineering (5)	
NE6016	Energy Systems in Buildings (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*.