BE (HONS) (CIVIL, STRUCTURAL AND ENVIRONMENTAL) ENGINEERING

Programme Requirements				
Year 1				
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 5		
PY1006	Physics for Engineers II	5		
PY1012	Physics for Engineers 1	10		
Year 2				
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				
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		

Environmental Engineering

5

CE3009

Total Credits		240
MG4052	Management in Practice (5)	
NE4005	Sustainability, Bioenergy and Circular Economy Systems (5)	
CE4024	Progressing Toward Sustainable Industry (5)	
CE4021	Work Placement (5)	
CE4020	Environmental Hydrodynamics (5)	
CE4016	Energy Systems in Buildings (5) (if not previously selected with CE4019)	
CE4019	Design Studio VII (Heating, Ventilation and Air Conditioning) (5) (plus CE4016 Energy Systems in Buildings) Candidates choosing CE4019 must also select CE4016.	
Elective Modules		
	om the following 5 credit modules:	20
CE4026	Environmental Design Studio	10
CE4007 CF4015	Environmental Hydraulics	5
CE4006 CE4007	Structural Analysis Geotechnical Engineering	5
CE4004 CF4006	Design Studio IV (Reinforced Concrete)	5 5
CE4002	BE Research Project	10
Core Modules		
credits) and 20 cr	credits as follows - all listed core modules (40 redits of elective modules:	
BE (Hons)		
Year 4	<i>3</i> ,	
CE4012	Traffic and Highways	5
CE3012	Materials and Sustainability	5
CE3010	Energy in Buildings	5