

BEng Honours in Electrical and Electronic Engineering
 BEng Honours in Electronic Engineering and Mechatronics
 BEng Honours in Digital Communications and Electronics
 BEng Honours in Electronics and Communication Engineering
 BEng Honours in Digital Systems and Computer Engineering
 BEng Honours in Electronics and Computer Engineering

Level 4

c = compulsory module

o = optional module

Module Title	Module Code	Award						Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		EE	EEM	DCE (*)	ECME	DSCE (*)	ECE						
Career Skills Development	4ENT1096	c	c	c	c	c	c	0	English	-	100	-	AB
Engineering Mathematics	4PAM1007	c	c	c	c	c	c	15	English	80	20	-	A
Introduction to Electronic Systems	4ENT1028	c	c	c	c	c	c	15	English	-	100	-	A
Intro to Manufacturing Technology	4ENT1117		c					15	English	-	100	-	AB
Materials and Electrical Science	4ENT1119		c					15	English	-	100	-	A
Sustainable Business of Electronics	4ENT1112	c		c	c	c	c	15	English	-	100	-	A
Digital Electronics & Computer Organisation	4ELE0050	c		c	c	c	c	15	English	80	20	-	A
Engineering Applications of Mathematics	4PAM1033	c	c	c	c	c	c	15	English	-	100	-	B
Electrical and Electronic Theory	4ENT1026	c		c	c	c	c	15	English	80	20	-	B
Mechanical Science	4ENT1067		c					15	English	80	20	-	B
Electronic Engineering Practice	4ENT1113	c		c	c	c	c	15	English	-	100	-	B
Introduction to Design	4ENT1121		c					15	English	-	100	-	AB
Computer Programming for Electronics Engineers	4ELE0049	c	c	c	c	c	c	15	English	-	100	-	B

Level 5

c = compulsory module, o = optional module(See page 8for further details about the Exchange Year and Exchange Semester).

Module Title	Module Code	Award						Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		EE	EEM	DCE (*)	ECME	DSCE (*)	ECE						
Exchange Year	5ENT1083	o	o	o	o	o	o	120	English	-	-	-	AB
Exchange Semester	5ENT1084	o	o	o	o	o	o	60	English	-	-	-	A or B
Further Engineering Mathematics	5PAM1005	c	c	c	c	c	c	15	English	70	30	-	A
Digital Design & Embedded Systems	5ELE0080	c	c	c	c	c	c	15	English	70	30	-	A
Real-time Systems & Programming	5ELE0082	c		c	c	c	c	15	English	-	100	-	B
Computer Aided Engineering	5ENT1078		c					15	English	-	100	-	A
Electronic Communication Systems	5ENT1074	c		c	c	c	c	15	English	70	30	-	A
Dynamics	5ENT1013		c					15	English	70	30	-	A
Project Management & Product Development	5ENT1080	c	c	c	c	c	c	15	English	70	30	-	B
Electrical Engineering & Power Control	5ELE0058	c		c	c	c	c	15	English	70	30	-	A
Structural Mechanics	5ENT1012		c					15	English	70	30	-	B
Mechatronic Systems Modelling & Control	5ENT1056	c	c	c	c	c	c	15	English	-	100	-	B
Integrated Engineering Systems Design	5ENT1033		c					15	English	-	100	-	B
Mini Projects (Electrical)	5ENT1075	c		-	-	-	-	15	English	-	100	-	B
Mini Projects (Communications)	5ENT1076	-		c	c	-	-	15	English	-	100	-	B
Mini Projects (Computer Engineering)	5ENT1073	-		-	-		c	15	English	-	100	-	B
Mini Projects (Digital Systems)	5ELE0085					c		15	English	-	100	-	B
Career Planning	5ENT1082	c	c	c	c	c	c	0	English	-	100	-	AB

Level 6

c = compulsory module, o = optional module - all students who do not take the Placement Year module must take the Careers Portfolio module 5 if Part Time and not employed by an appropriate engineering company). See Page 9 for details of the Study Abroad options. EE4 students must take Telecommunication Systems or Micro-Engineering and Micro-Technology.

Module Title	Module Code	Award						Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		EE	EBM	DCE (*)	ECME	DSCE (*)	ECE						
Placement Year	6AAD0015	o	o	o	o	o	o	0	English	-	100	-	ABC
Year Abroad	6ENT0001	o	o	o	o	o	o	0	English	-	-	-	AB
Semester Abroad	6ENT1051	o	o	o	o	o	o	0	English	-	-	-	A/B
Careers Portfolio	6ENT1021	o	o	o	o	o	o	0	English	-	100	-	A
Microelectronics & VLSI	6ENT1027	c	-	c	c	c	c	15	English	60	40	-	A
Control Systems	6AAD0007	-	c	-	-	-	-	15	English	60	40	-	A
Digital Signal Processing	6ELE0066	c	c	c	c	c	c	15	English	60	40	-	A
Power Systems	6ELE0071	c	-	-	-	-	-	15	English	60	40	-	A
Mobile & Digital Communication Networks	6ELE0069	-	-	c	c	c	c	15	English	60	40	-	B
Intelligent Systems and Robotics	6ELE0067	c	c	-	-	c	c	15	English	60	40	-	B
Advanced Power Conversion and Control	6ELE0062	c	-	-	-	-	-	15	English	60	40	-	B
Optical Communication Systems	6ELE0072	-	-	c	c	-	-	15	English	60	40	-	A
Satellite & Terrestrial Communication Systems	6ENT1014	-	-	c	c	-	-	15	English	-	100	-	B
Computer Architecture	6ELE0084	-	-	-	-	c	c	15	English	60	40	-	B
Operating Systems and Object Oriented Programming	6ELE0070	-	c	-	-	c	c	15	English	60	40	-	A
Telecommunication Systems	6ELE0074	o	-	c	c	-	-	15	English	60	40	-	B
Mechatronics Design	6ENT1039	-	c	-	-	-	-	15	English	-	100	-	B
Micro-Engineering & Micro-Technology	6ENT1022	o	c	-	-	-	-	15	English	-	100	-	B
Individual Major Project	6ENT1062	c	c	c	c	c	c	30	English	-	100	-	AB

BSc Honours in Digital Technology

Level 4

Module Title	Module Code	Award				Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		CTN	MCT	MIT	ITA						
Career Skills Development	4ENT1096	c	c	c	c	-	English	-	100	-	AB
Sound & Psychoacoustics	4ENT1125	c	c	c	c	15	English	50	50	-	A
E-Culture	4ENT1126	c	c	c	c	15	English	-	100	-	A
Software Application Practice	4ENT1100	c	c	c	c	15	English	-	100	-	A
Smart Technology	4ENT1102	c	c	c	c	15	English	-	100	-	A
Vision & Image Perception	4ENT1084	c	c	c	c	15	English	50	50		B
Multimedia Regulatory Framework	4ENT1104	c	c	c	c	15	English	-	100	-	B
Interactive Programming	4ENT1071	c	c	c	c	15	English	-	100	-	B
Internet of Things	4ENT1106	c	c	c	c	15	English	50	50	-	B

Level 5(2016 entry onwards)

c = compulsory module

o = optional module(See page 8 for further details about the Exchange Year and Exchange Semester).

Module Title	Module Code	Award				Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		CTN	MCT	MIT	ITA						
Exchange Year	5ENT1063	o	o	o	o	120	English	-	-	-	AB
Exchange Semester	5ENT1064	o	o	o	o	60	English	-	-	-	A or B
Career Planning	5ENT1082	c	c	c	c	-	English	-	100	-	AB
Content & Asset Management	5ENT1081	c	c	c	c	15	English	-	100	-	A
Markup Languages and Metadata	5ENT1049	c	c	c	c	15	English	-	100	-	A
E-Enterprise and Entrepreneurship	5ENT1083	c	c	c	c	15	English	-	100	-	B
Networking	5ENT1047	c	c	c	c	15	English	50	50	-	A
Interactive Design Group Project	5ENT1068	c	c	c	c	15	English	-	100	-	B
Interaction Design	5ENT1084	c	c	c	c	15	English	-	100	-	A
Audio and Video Studio Practice	5ELE0085			c	c	15	English	-	100	-	B
Web Services	5ENT1070	c	c			15	English	-	100	-	B
Mini Project CTN	5ENT1085	c				15	English	-	100	-	B
Mini Project MCT	5ENT1069		c			15	English	-	100	-	B
Mini Project MIT	5ENT1071			c		15	English	-	100	-	B
Mini Project ITA	5ENT1072				c	15	English	-	100	-	B

BSc Honours in Technology with Management

Level 4

c = compulsory module
o = optional module

Module Title	Module Code	Award				Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		TMA	TPS	TMV	TMS						
Career Skills Development	4ENT1096	c	c	c	c	0	English	-	100	-	AB
Mathematics for Engineering	4PAM1047	c	c	c	c	15	English	-	100	-	A
Aerospace Technology & Industry	4AAD0016	c	c	-	-	15	English	-	100	-	A
Motorsport and Automotive Technology	4ENT1128	-	-	c	c	15	English	-	100	-	A
Materials and Electrical Technology	4ENT1129	c	c	c	c	15	English	-	100	-	A
Introduction to Manufacturing for Technologists	4ENT1109	c	c	c	c	15	English	-	100	-	AB
Computing for Business and Technology	4ENT1130	c	c	c	c	15	English	-	100	-	B
Mechanical Experimental Engineering	4ENT1006	c	c	c	c	15	English	-	100	-	B
Introduction to Design for Technologists	4ENT1108	c	c	c	c	15	English	-	100	-	AB
Engineering Statistics	4ENT1045	c	c	c	c	15	English	60	40	-	B

Level 5

c = compulsory module

o = optional module(See page 8 for further details about the Exchange Year and Exchange Semester).

Module Title	Module Code	Award				Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		TMA	TPS	TMV	TMS						
Exchange Year	5ENT1063	o	o	o	o	120	English	-	-	-	AB
Exchange Semester	5ENT1064	o	o	o	o	60	English	-	-	-	A or B
Computer Aided Design	5AAD0046	c	c	c	c	15	English	-	100	-	A
Thermofluid Experimental Engineering	5ENT1086	c	c	c	c	15	English	-	100	-	A
Engineering Operations Management	5ENT1087	c	c	c	c	15	English	60	40	-	A
Principles of Aircraft Systems	5ENT1035	c	c	-	-	15	English	-	100	-	A
Automotive Electrical Systems	5ENT1004	-	-	c	c	15	English	60	40	-	A
Simulation & Analysis Techniques	5ENT1088	c	c	c	c	15	English	-	100	-	B
Computer Aided Manufacture	5ENT1001	c	c	c	c	15	English	-	100	-	B
Product and Project Management	5ENT1030	c	-	c	c	15	English	60	40	-	B
Aerospace Design, Test and Certification	5AAD0006	c	c	-	-	15	English	-	100	-	B
Vehicle Aerodynamics and Design	5ENT1089	-	-	c	c	15	English	-	100	-	B
Air Law, Navigation and Meteorology	5ENT1091	-	c	-	-	15	English	-	100	-	B
Career Planning	5ENT1082	c	c	c	c	0	English	-	100	-	AB

Level 6

c = compulsory module, o = optional module. All students who do not take the Placement Year module must take the Careers Portfolio module 5 if Part Time and not employed by an appropriate engineering company). See Page 9 for details of the Study Abroad options.

Module Title	Module Code	Award				Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		TMA	TPS	TMV	TMS						
Industrial Placement (Placement Year)	6AAD0015	o	o	o	o	-	English	-	100	-	ABC
Year Abroad	6ENT0001	o	o	o	o	-	English	-	-	-	AB
Semester Abroad	6ENT1051	o	o	o	o	-	English	-	-	-	A/B
Careers Portfolio	6ENT1021	o	o	o	o	0	English	-	100	-	AB
Instrumentation and Control Systems	6ENT1009	c	c	c	c	15	English	60	40	-	A
Pilot Studies and Flight Planning	6ENT1040	-	c	-	-	30	English	-	100	-	AB
Engineering Management and Finance	6AAD0020	c	-	c	-	15	English	-	100	-	A
Motorsport Technology	6ENT1057	-	-	-	c	15	English	-	100	-	A
Vehicle Design	6ENT1067	-	-	c	c	15	English	-	100	-	A
Reliability Engineering	6ENT1006	c	-	c	-	15	English	60	40	-	B
Avionics Technology	6ENT1059	c	c	-	-	15	English	-	100	-	B
Automotive Body Engineering	6ENT1068	-	-	c	-	15	English	-	100	-	B
Racing Car Body Engineering	6ENT1069	-	-	-	c	15	English	-	100	-	B
Design of High Performance Engines	6ENT1060	-	-	-	c	15	English	60	40	-	B
Automotive Chassis & Powertrain Technology	6AAD0006	-	-	c	c	15	English	60	40	-	B
Aerospace Performance, Propulsion, Design & Manufacture	6ENT1070	c	c	-	-	30	English	40	60	-	AB
Final Year Project	6ENT1061	c	c	c	c	30	English	-	100	-	AB

BEng Honours in Aerospace, Aerospace Systems, Computer Aided, Mechanical, Manufacturing and Automotive Engineering

Level 4

c = compulsory module

o = optional module.

Module Title	Module Code	Award								Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		A	AEST	ASE	APS	M	MEM	V	VMS						
Career Skills Development	4ENT1096	c	c	c	c	c	c	c	c	0	English	-	100	-	AB
Engineering Mathematics	4PAM1007	c	c	c	c	c	c	c	c	15	English	80	20	-	A
Aerospace Technology & Industry	4AAD0016	c	c	c	c	-	-	-	-	15	English	-	100	-	A
Engineering Fundamentals	4ENT1098	-	-	-	-	c	-	-	-	15	English	-	100	-	A
Automotive and Motorsport Technology	4ENT1115	-	-	-	-	-	-	c	c	15	English	-	100	-	A
Intro to Manufacturing Technology	4ENT1117	c	c	c	c	c	c	c	c	15	English	-	100	-	AB
Materials and Electrical Science	4ENT1119	c	c	c	c	c	c	c	c	15	English	-	100	-	A
Introduction to Electronic Systems	4ENT1028	-	-	-	-	-	c	-	-	15	English	-	100	-	A
Computer Programming for Electronics Engineers	4ELE0049	-	-	-	-	-	c	-	-	15	English	-	100	-	B
Engineering Applications of Mathematics	4PAM1033	c	c	c	c	c	c	c	c	15	English	-	100	-	B
Introduction to Design	4ENT1121	c	c	c	c	c	c	c	c	15	English	-	100	-	AB
Fluid Mechanics and Thermodynamics	4ENT1068	c	c	c	c	c	-	c	c	15	English	80	20	-	B
Mechanical Science	4ENT1067	c	c	c	c	c	c	c	c	15	English	80	20		B

Level 5

c = compulsory module

o = optional module(See page 8 for further details about the Exchange Year and Exchange Semester).

Module Title	Module Code	Award								Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		A	AEST	ASE	APS	M	MEM	V	VMS						
Exchange Year	5ENT1063	o	o	o	o	o	o	o	o	120	English	-	-	-	AB
Exchange Semester	5ENT1064	o	o	o	o	o	o	o	o	60	English	-	-	-	A or B
Further Engineering Mathematics	5PAM1005	c	c	c	c	c	c	c	c	15	English	70	30	-	A
Computer Aided Engineering	5ENT1078	c	c	-	-	c	c	c	c	15	English	-	100	-	A
Aircraft Systems	5ENT1039	-	-	c	c	-	-	-	-	15	English	-	100	-	A
Dynamics	5ENT1013	c	c	c	c	c	c	c	c	15	English	70	30	-	A
Aerospace Design	5ENT1032	c	c	c	c	-	-	-	-	15	English	-	100	-	A
Thermofluid Mechanics	5ENT1079	-	-	-	-	c	-	c	c	15	English	70	30	-	A
Electrical Engineering & Power Control	5ELE0058	-	-	-	-	-	c	-	-	15	English	70	30	-	A
Mechatronic Systems Modelling & Control	5ENT1056	-	-	-	-	c	c	-	-	15	English	-	100	-	B
Aerospace Systems Modelling & Control	5ENT1062	c	c	c	c	-	-	-	-	15	English	-	100	-	B
Auto Electronics & Control Systems	5ENT1011	-	-	-	-	-	-	c	c	15	English	-	100	-	B
Proj Management & Product Developm't	5ENT1080	c	c	c	-	c	c	c	c	15	English	70	30	-	B
Air Law, Navigation and Meteorology	5ENT1091	-	-	-	c	-	-	-	-	15	English	-	100	-	B
Structural Mechanics	5ENT1012	c	-	-	-	c	c	c	c	15	English	70	30	-	B
Avionics Systems	5ENT1067	-	c	c	c	-	-	-	-	15	English	-	100	-	B
Aerothermodynamics	5ENT1014	c	c	c	c	-	-	-	-	15	English	70	30	-	B
Integrated Engineering Systems Design	5ENT1033	-	-	-	-	c	c	c	-	15	English	-	100	-	B
Motorsport Design	5ENT1041	-	-	-	-	-	-	-	c	15	English	-	100	-	B
Career Planning	5ENT1082	c	c	c	c	c	c	c	c	0	English	-	100	-	AB

Level 6

c = compulsory module, o = optional module. All students who do not take the Placement Year module must take the Careers Portfolio module 5 if Part Time and not employed by an appropriate engineering company). See Page 9 for details of the Study Abroad options. M4 students must take Manufacturing Strategy or Micro-Engineering & Micro-Technology.

Module Title	Module Code	Award								Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semester
		A	AEST	ASE	APS	M	MEM	V	VMS						
Placement Year	6AAD0015	o	o	o	o	o	o	o	o	0	English	-	100	-	ABC
Year Abroad	6ENT0001	o	o	o	o	o	o	o	o	0	English	-	-	-	AB
Semester Abroad	6ENT1051	o	o	o	o	o	o	o	o	0	English	-	-	-	A/B
Careers Portfolio	6ENT1021	o	o	o	o	o	o	o	o	0	English	-	100	-	AB
Stability & Control of Aircraft	6AAD0018	c	-	c	c	-	-	-	-	15	English	60	40	-	A
Mechanics & Properties of Materials	6ACM0003	c	-	-	-	c	c	c	c	15	English	60	40	-	A
Control Systems	6AAD0007	-	c	c	-	c	c	-	-	15	English	60	40	-	A
Rocket Performance & Propulsion	6AAD0026	-	c	-	-	-	-	-	-	15	English	60	40	-	A
Vehicle Engineering Design	6AAD0022	-	-	-	-	-	-	c	c	15	English	-	100	-	A
Pilot Studies and Flight Analysis	6ENT1041	-	-	-	c	-	-	-	-	30	English	-	100	-	AB
Aero Structural Design & Analysis	6ENT1035	c	-	-	-	-	-	-	-	15	English	60	40	-	B
Aerodynamics	6ENT1064	c	-	-	-	-	-	-	-	15	English	60	40	-	B
Satellite & Terrestrial Com Systems	6ENT1014	-	c	c	-	-	-	-	-	15	English	-	100	-	B
Space Dynamics	6PAM0027	-	c	-	-	-	-	-	-	15	English	-	100	-	B
Aircraft Systems Integration	6ENT1063	-	-	c	c	-	-	-	-	15	English	60	40	-	B
Mechatronics Design	6ENT1039	-	-	-	-	-	c	-	-	15	English	-	100	-	B
Mechanical Engineering Design	6ENT1071	-	-	-	-	c	-	-	-	15	English	-	100	-	B
Vibration, Noise & Vehicle Dynamics	6ENT1066	-	-	-	-	-	-	c	c	15	English	60	40	-	B
Noise and Vibration Analysis	6ENT1038	-	-	-	-	c	c	-	-	15	English	60	40	-	B
Vehicle Structural Analysis & Manu	6AAD0023	-	-	-	-	-	-	c	c	15	English	60	40	-	B
Thermofluid Mechanics & Heat Transfer	6AAD0005	-	-	-	-	c	-	c	-	15	English	60	40	-	A
Motorsport Engineering	6ENT1053	-	-	-	-	-	-	-	c	15	English	-	100	-	A
Micro-Eng & Micro-Technology	6ENT1022	-	-	-	-	o	c	-	-	15	English	-	100	-	B
Manufacturing Strategy	6AAD0019	-	-	-	-	o	-	c	-	15	English	60	40	-	B
High Performance Engine Design	6ENT1054	-	-	-	-	-	-	-	c	15	English	60	40	-	B
Power Systems	6ELE0071	-	-	-	-	-	c	-	-	15	English	60	40	-	A
Aero Performance, Propulsion & Design	6ENT1065	c	c	c	c	-	-	-	-	30	English	40	60	-	AB
Individual Major Project	6ENT1062	c	c	c	c	c	c	c	c	30	English	0	100	-	AB

BEng (Hons) in Biomedical Engineering

Level 4

Compulsory Modules Module Title

	Module Code	Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Career Skills Development	4ENT1096	0	English	-	100	-	AB
Foundations of Anatomy and Biomechanics	4LMS0127	30	English	-	60	40	AB
Digital Electronics & Computer Organisation	4ELE0050	15	English	80	20	-	A
Electronic Circuits and Sensors	4ENT1095	15	English	-	100	-	A
Materials and Manufacture	4ENT1094	15	English	-	100	-	A
Fluid Mechanics and Thermodynamics	4ENT1068	15	English	80	20	-	B
Mechanical Science	4ENT1067	15	English	80	20	-	B
Engineering Applications of Mathematics	4PAM1033	15	English	-	100	-	B

Level 5

Compulsory Modules

Module Title	Module Code	Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Career Planning	5ENT1082	0	English	-	100	-	AB
Foundations of Human Physiology	5LMS0062	30	English	60	40	-	AB
Further Engineering Mathematics	5PAM1005	15	English	70	30	-	A
Physical Sensors & Actuators	5ENT1054	15	English	70	30	-	A
Introduction to Design (Biomedical)	5ENT1055	15	English	-	100	-	A
Mechatronic Systems Modelling and Control	5ENT1056	15	English	-	100	-	B
CAE for Biomedical Systems	5ENT1057	15	English	-	100	-	B
General Healthcare Design	5ENT1059	15	English	-	100	-	B