

School of Engineering Course Selection Information Pack

Visiting students are expected to choose courses from one of the following 3 parameters;

1. Courses from a single degree programme for **Level 3**,
2. Courses from a single degree programme for **Level 4 BEng**
3. A combination of courses from a single degree programme in **Level 4&5 MEng**.

To do otherwise will give timetabling problems for classes, laboratories and exams.

It is your responsibility together with your home institution to carry out a course mapping exercise using these parameters to ensure that your learning outcomes are being achieved.

Final Year Project course will not be available for 22/23 (ENG4110P)

To help pick courses please see below for the details;

BIOMEDICAL ENGINEERING

MEng/BEng Year 3

Course Code	Course	Credits	Semester
BIOL2043	Human Biological Sciences 2	30	2
ENG3011	Biological Fluid Mechanics 3	10	1
ENG3090	Biomedical Engineering Skills 3	10	1&2
ENG3015	Control 3	10	2
ENG3034	Instrumentation and Data Systems 3	10	2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3038	Microscopy and Optics 3	10	1
ENG3084	Biomechanics 3	10	1
PHYS4013	Medical Imaging	10	2
STATS3002	Statistics for Biomedical Engineering 3	10	1

BEng Year 4

Course Code	Course	Credits	Semester
ENG4036	Biosensors and Diagnostics 4	10	2
ENG4110P	Individual Project 4	30	1&2
ENG4113	Rehabilitation Engineering 4	10	2
ENG4189	Bioethics for Biomedical Engineering 4	10	2
ENG4191	Signal Processing of Biosignatures 4	10	1
MGT5068	Professional Practice 5	20	2
BIOL4124	Tissue and Cell Engineering 4	20	1
ENG4004	Materials Engineering 4	10	2
ENG4025	Finite Element Analysis 4	10	1
ENG4053	Digital Signal Processing 4	20	1
ENG4098	Microelectronics in Consumer Products 4	10	1
ENG4122	Structural Analysis 4	10	2
ENG4042	Control 4	20	1
ENG4193	Ultrasound Technology & Applications 4	10	1
ENG4195	Control System Analysis and Design 4	10	1

MEng Year 4

Course Code	Course	Credits	Semester
ENG4036	Biosensors and Diagnostics 4	20	2
ENG4113	Rehabilitation Engineering 4	10	2
ENG4189	Bioethics for Biomedical Engineering 4	10	2
ENG4191	Signal Processing of Biosignatures 4	10	1
BIOL4124	Tissue and Cell Engineering 4	20	1
ENG4004	Materials Engineering 4	10	2
ENG4025	Finite Element Analysis 4	10	1
ENG4042	Control 4	20	1
ENG4053	Digital Signal Processing 4	20	1
ENG4098	Microelectronics in Consumer Products 4	10	1
ENG4118	Robotics 4	20	2
ENG4122	Structural Analysis 4	10	2
ENG4193	Ultrasound Technology & Applications 4	10	1
ENG4195	Control System Analysis and Design 4	10	1

MEng Year 5

Course Code	Course	Credits	Semester
MGT5068	Professional Practice 5	20	2
ENG5102	Applications of Biomedical Engineering 5	10	2
ENG5281	Energy in Biological Systems M	10	2
ENG5282	Scaffold and Tissues M	10	2
ENG5302	Ultrasound Technology and Applications	10	1

(provided that pre-requisites are met):

ENG5220	Real Time Embedded Programming pre-requisite: ENG4053 Digital Signal Processing 4	20	2
ENG5227	Structures under Extreme Loads M pre-requisite: ENG4025 Finite Element Analysis 4	10	2
ENG5274	Advanced Structural Analysis and Dynamics 5 pre-requisite: ENG4122 Structural Analysis 4	10	2
ENG5300	Materials Engineering 5	10	2

CIVIL ENGINEERING

MEng/BEng Year 3

Course Code	Course	Credits	Semester
ENG3046	Structural Design 3	10	1
ENG3047	Structural Mechanics 3	20	1 & 2
ENG3073	Geotechnical Engineering 3	20	1 & 2
ENG3037	Mechanics of Solids 3	10	1
ENG3080	Environmental Process Engineering 3	10	2
ENG3082	Construction Management 3	10	2
ENG3085	Engineering Hydraulics 3	10	1
ENG3086	Highway Engineering 3	10	1

BEng Year 4

Course Code	Course	Credits	Semester
ENG4050	Civil Design Project 4	20	1 & 2
ENG4110P	Individual Project 4	30	1 & 2
ENG4025	Finite Element Analysis 4	10	1
ENG4070	Geotechnical Engineering 4	10	1
ENG4072	Ground Engineering 4	10	2
ENG4079	Industrial Aerodynamics 4	10	2
ENG4122	Structural Analysis 4	10	2
ENG4124	Advanced Steel and Concrete Design 4	10	1
ENG4152	Environmental Biotechnology 4	10	2
ENG4053	Renewable and Sustainable Energy 4	10	1
ENG4183	Transportation Systems Engineering 4	10	1
ENG4192	Hydraulics & Hydrology 4	10	2
GEOG4057	Managing River Catchments	10	2 (Alt Years)
GEOG4060	Coastal Environments and Management	10	1 (Alt Years)
GEOG4061	Coastal Processes	10	1 (Alt Years)

MEng Year 4

Course Code	Course	Credits	Semester
ENG4025	Finite Element Analysis 4	10	1
ENG4070	Geotechnical Engineering 4	10	1
ENG4122	Structural Analysis 4	10	2
ENG4124	Advanced Steel and Concrete Design 4	10	1
ENG4188	Geotechnical Design Project 4	20	2
ENG4192	Hydraulics & Hydrology 4	10	2
ENG4072	Ground Engineering 4	10	2
ENG4079	Industrial Aerodynamics 4	10	2
ENG4152	Environmental Biotechnology 4	10	2
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4183	Transportation Systems Engineering 4	10	1
GEOG4057	Managing River Catchments	10	2 (Alt Years)
GEOG4060	Coastal Environments and Management	10	1 (Alt Years)
GEOG4061	Coastal Processes	10	1 (Alt Years)

MEng Year 5

Course Code	Course	Credits	Semester
ENG5273	Conceptual Design Project M	20	2
ENG5295P	Individual Project C5	40	1
ENG5048	Industrial Aerodynamics M	10	2
ENG5224	Advanced Concrete Performance M	10	2
ENG5227	Structures under Extreme Loads M	10	2
ENG5274	Advanced Structural Analysis and Dynamics 5	10	2
ENG5275	Reclamation of Contaminated Land	10	2
ENG5279	Energy from Waste M	10	2
ENG5284	Advanced Soil Mechanics 5	10	1
ENG5304	Transport Network Optimisation 5	10	2
GEOG4057	Managing River Catchments	10	2
GEOG5019	Principles of GIS	10	1

ELECTRONIC AND ELECTRICAL ENGINEERING

MEng/BEng Year 3

Course Code	Course	Credits	Semester
ENG3014	Communication Systems 3	10	1
ENG3015	Control 3	10	2
ENG3023	Electromagnetic Compatibility 3	10	2
ENG3024	Electronic Circuit Design 3	10	2
ENG3025	Electronic Devices 3	10	1
ENG3026	Electronic System Design 3	10	1
ENG3027	Engineering Career Skills 3	10	1 & 2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3041	Power Engineering 3	10	2
ENG3043	Real Time Computer Systems 3	10	1
ENG3091	Advanced Programming and Software	10	1
ENG3049	Team Design Project EE3	10	1 & 2

BEng Year 4

Course Code	Course	Credits	Semester
COMPSCI5013	IT Architecture (M)	10	2
COMPSCI4071	Advanced Software Engineering Practices (H)	10	1 & 2
ENG4001	Acoustics and Audio Technology 4	20	2
ENG4036	Biosensors and Diagnostics 4	10	2
ENG4042	Control 4	20	1
ENG4052	Digital Communication 4	20	1&2
ENG4053	Digital Signal Processing 4	20	1
ENG4099	Advanced Devices 4	20	2
ENG4100	Microwaves and Optical Transmission Systems 4	20	2
ENG4104	Power Systems 4	20	2
ENG4118	Robotics 4	20	2
ENG4138	VLSI Design 4	20	1
ENG4181	Biophysics of Cells and Systems 4	10	1
ENG4184	Navigation Systems 4	10	1
ENG4185	Radar and Electro-Optic Systems 4	10	2

MEng Year 4

Course Code	Course	Credits	Semester
ENG4172	Team Project EE4	20	1 & 2
COMPSCI5013	IT Architecture (M)	10	2
COMPSCI4071	Advanced Software Engineering Practices (H)	10	1 & 2
ENG4001	Acoustics and Audio Technology 4	20	1
ENG4036	Biosensors and Diagnostics 4	10	2
ENG4042	Control 4	20	1
ENG4052	Digital Communication 4	20	1
ENG4053	Digital Signal Processing 4	20	1
ENG4099	Advanced Devices 4	20	2
ENG4100	Microwaves and Optical Transmission Systems 4	20	2
ENG4104	Power Systems 4	20	2
ENG4118	Robotics 4	20	2
ENG4138	VLSI Design 4	20	1
ENG4181	Biophysics of Cells & Systems 4	10	1
ENG4184	Navigation Systems 4	10	1
ENG4185	Radar and Electro-Optic Systems 4	10	2

MEng Year 5

Course Code	Course	Credits	Semester
ENG5026	Design Special Topic 5	20	2
ENG5009	Advanced Control 5	10	2
ENG5048	Industrial Aerodynamics M	10	2
ENG5055	Micro and Nano Technology	20	2
ENG5056	Microwave and mm Wave Circuit Design	20	2
ENG5066	Optical Communications	20	2
ENG5220	Real Time Embedded Programming	20	2
ENG5250	Energy Conversion Systems M	10	2
ENG5261	Advanced Devices M	10	2
ENG4193	Ultrasound Technology and Apps	10	2

MECHANICAL ENGINEERING

MEng/BEng Year 3

Course Code	Course	Credits	Semester
ENG3015	Control 3	10	2
ENG3030	Fluid Mechanics 3	10	2
ENG3032	Heat Transfer 3	10	2
ENG3034	Instrumentation and Data Systems 3	10	2
ENG3035	Design and Manufacture 3	10	2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3037	Mechanics of Solids 3	10	1
ENG3039	Dynamics 3	10	1
ENG3053	Thermodynamics of Engines 3	10	1
ENG4025	Finite Element Analysis 4	10	1
ENG3017	Mechanical Design 3	20	1
ENG3041	Power Engineering 3	10	2

BEng Year 4

Course Code	Course	Credits	Semester
ENG4110P	Individual Project 4	30	1 & 2
MGT5068	Professional Practice 5	20	2
ENG4004	Materials Engineering 4	10	2
ENG4042	Control 4	20	1
ENG4079	Industrial Aerodynamics 4	10	2
ENG4088	Lasers and Electro-Optic Systems 4	20	1
ENG4094	Mechanics of Solids 4	20	1
ENG4098	Microelectronics in Consumer Products 4	10	1
ENG4118	Robotics 4	20	2
ENG4137	Vibration 4	20	2
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4179	Advanced Thermal Engineering 4	20	1
ENG4186	Mechanical Design 4	20	1 & 2
LAW1011	Elements of Law for Engineers	10	2

MEng Year 4

Course Code	Course	Credits	Semester
ENG4004	Materials Engineering 4	10	2
ENG4037	Computational Fluid Dynamics 4	10	2
ENG4042	Control 4	20	1
ENG4079	Industrial Aerodynamics 4	10	2
ENG4088	Lasers and Electro-Optic Systems 4	20	1
ENG4094	Mechanics of Solids 4	20	1
ENG4098	Microelectronics in Consumer Products 4	10	1
ENG4104	Power Systems 4	20	2
ENG4118	Robotics 4	20	2
ENG4137	Vibration 4	20	2
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4179	Advanced Thermal Engineering 4	20	1
ENG4186	Mechanical Design 4	20	1 & 2
ENG4193	Ultrasound Technology and Applications 4	20	1
LAW1011	Elements of Law for Engineers	10	2

MEng Year 5

Course Code	Course	Credits	Semester
MGT5068	Professional Practice 5	20	2
ENG5009	Advanced Control 5	10	2
ENG5017	Autonomous Vehicle Guidance Systems M	10	2
ENG5048	Industrial Aerodynamics M	10	2
ENG5227	Structures under Extreme Loads M	10	2
ENG5299	Dynamics 5	10	2
ENG5300	Materials Engineering 5	10	2
ENG5302	Ultrasound Technology and Applications	10	2
ENG5303	Advanced Thermal Engineering 5	10	2
ENG5307	Computational Fluid Dynamics 5	10	2

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MEng/BEng Year 3

Course Code	Course	Credits	Semester
ENG3015	Control 3	10	2
ENG3032	Heat Transfer 3	10	2
ENG3034	Instrument and Data Systems	10	2
ENG3035	Design and Manufacture 3	10	2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3037	Mechanics of Solids 3	10	1
ENG3039	Dynamics 3	10	1
ENG3042	Propulsion and Turbomachinery 3	10	1
ENG3059	Aircraft Performance 3	10	1
ENG3060	Flight Mechanics 3	10	2

BEng Course Code

Course Code	Course	Credits	Semester
ENG4110P	Individual Project 4	30	1 & 2
MGT5068	Professional Practice 5	20	2
ENG4004	Materials Engineering 4	10	2
ENG4025	Finite Element Analysis 4	10	1
ENG4037	Computational Fluid Dynamics 4	10	2
ENG4042	Control 4	20	1
ENG4067	Flight Dynamics 4	10	1
ENG4074	High Speed Aerodynamics 4	10	2
ENG4079	Industrial Aerodynamics 4	10	2
ENG4088	Lasers and Electro-Optic Systems 4	20	1
ENG4094	Mechanics of Solids 4	20	1
ENG4102	Physics of Fluids 4	10	1
ENG4118	Robotics 4	20	2
ENG4121	Space Flight Dynamics 4	10	1
ENG4137	Vibration 4	20	2
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4179	Advanced Thermal Engineering 4	20	1
ENG4194	Aerospace Propulsion 4	10	2
ENG4196	Rotorcraft Aeromechanics 4	10	2
LAW1011	Elements of Law for Engineers	10	2

MEng Year 4

Course Code	Course	Credits	Semester
ENG4004	Materials Engineering 4	10	2
ENG4025	Finite Element Analysis 4	10	1
ENG4037	Computational Fluid Dynamics 4	10	2
ENG4042	Control 4	20	1
ENG4067	Flight Dynamics 4	10	1
ENG4074	High Speed Aerodynamics 4	10	2
ENG4079	Industrial Aerodynamics 4	10	2
ENG4088	Lasers and Electro-Optic Systems 4	20	1
ENG4094	Mechanics of Solids 4	20	1
ENG4102	Physics of Fluids 4	10	1
ENG4118	Robotics 4	20	2
ENG4121	Space Flight Dynamics 4	10	1
ENG4137	Vibration 4	20	2
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4179	Advanced Thermal Engineering 4	20	1
ENG4194	Aerospace Propulsion 4	10	2
ENG4196	Rotorcraft Aeromechanics 4	10	2
LAW1011	Elements of Law for Engineers	10	2

MEng Year 5

Course Code	Course	Credits	Semester
MGT5068	Professional Practice 5	20	2
ENG5009	Advanced Control 5	10	2
ENG5014	Aircraft Handling Qualities and Control 5	10	2
ENG5017	Autonomous Vehicle Guidance Systems M	10	2
ENG5048	Industrial Aerodynamics M	10	2
ENG5081	Spacecraft Systems 2	10	2
ENG5227	Structures under Extreme Loads M	10	2
ENG5263	Aeroelastics & Aeroacoustics 5	10	2
ENG5265	Rotorcraft Aeromechanics 5	10	2
ENG5278	Advanced Aerodynamics 5	10	2
ENG5280	Turbulent Flows 5	10	2
ENG5299	Dynamics 5	10	2
ENG5300	Materials Engineering 5	10	2
ENG5302	Ultrasound Technology and Applications	10	1
ENG5303	Advanced Thermal Engineering 5	10	2
ENG5307	Computational Fluid Dynamics 5	10	2

MECHANICAL DESIGN ENGINEERING

MEng/BEng Year 3

Course Code	Course	Credits	Semester
COMPSCI3005	Software Engineering M3	10	2
ENG3015	Control 3	10	2
ENG3017	Mechanical Design 3	20	1 & 2
ENG3030	Fluid Mechanics 3	10	2
ENG3032	Heat Transfer 3	10	2
ENG3034	Instrumentation and Data Systems 3	10	2
ENG3035	Design and Manufacture 3	10	2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3037	Mechanics of Solids 3	10	1
ENG3039	Dynamics 3	10	1
ENG4025	Finite Element Analysis 4	10	1

BEng Year 4

Course Code	Course	Credits	Semester
ENG4110P	Individual Project 4	30	1 & 2
ENG4186	Mechanical Design 4	20	1 & 2
MGT5068	Professional Practice 5	20	2
ENG4004	Materials Engineering 4	10	2
ENG4042	Control 4	20	1
ENG4088	Lasers and Electro-Optic Systems 4	20	1
ENG4094	Mechanics of Solids 4	20	1
ENG4098	Microelectronics in Consumer Products 4	10	1
ENG4118	Robotics 4	20	2
ENG4137	Vibration 4	20	2
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4179	Advanced Thermal Engineering 4	20	1
LAW1011	Elements of Law for Engineers	10	2

MEng Year 4

Course Code	Course	Credits	Semester
ENG4004	Materials Engineering 4	10	2
ENG4025	Finite Element Analysis 4	10	1
ENG4037	Computational Fluid Dynamics 4	10	2
ENG4042	Control 4	20	1
ENG4067	Flight Dynamics 4	10	1
ENG4074	High Speed Aerodynamics 4	10	2
ENG4079	Industrial Aerodynamics 4	10	2
ENG4088	Lasers and Electro-Optic Systems 4	20	1
ENG4094	Mechanics of Solids 4	20	1
ENG4102	Physics of Fluids 4	10	1
ENG4118	Robotics 4	20	2
ENG4121	Space Flight Dynamics 4	10	1
ENG4137	Vibration 4	20	2
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4179	Advanced Thermal Engineering 4	20	1
ENG4194	Aerospace Propulsion 4	10	2
ENG4196	Rotorcraft Aeromechanics 4	10	2
LAW1011	Elements of Law for Engineers	10	2

MEng Year 5

Course Code	Course	Credits	Semester
MGT5068	Professional Practice 5	20	2
ENG5009	Advanced Control 5	10	2
ENG5014	Aircraft Handling Qualities and Control 5	10	2
ENG5017	Autonomous Vehicle Guidance Systems M	10	2
ENG5048	Industrial Aerodynamics M	10	2
ENG5081	Spacecraft Systems 2	10	2
ENG5227	Structures under Extreme Loads M	10	2
ENG5263	Aeroelastics & Aeroacoustics 5	10	2
ENG5265	Rotorcraft Aeromechanics 5	10	2
ENG5278	Advanced Aerodynamics 5	10	2
ENG5280	Turbulent Flows 5	10	2
ENG5299	Dynamics 5	10	2
ENG5300	Materials Engineering 5	10	2
ENG5302	Ultrasound Technology and Applications	10	2
ENG5303	Advanced Thermal Engineering 5	10	2
ENG5307	Computational Fluid Dynamics 5	10	2

MECHATRONICS

MEng/BEng Year 3

Course Code	Course	Credits	Semester
ENG3015	Control 3	10	2
ENG3023	Electromagnetic Compatibility 3	10	2
ENG3026	Electronic System Design 3	10	1
ENG3034	Instrumentation and Data Systems 3	10	2
ENG3035	Design and Manufacture 3	10	2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3037	Mechanics of Solids 3	10	1
ENG3039	Dynamics 3	10	1
ENG3041	Power Engineering 3	10	2
ENG3043	Real Time Computer Systems 3	10	1
ENG3071	Mechatronic Team Project 3	10	1

BEng Year 4

Course Code	Course	Credits	Semester
ENG4042	Control 4	20	1
ENG4053	Digital Signal Processing 4	20	1
ENG4110P	Individual Project 4	30	1 & 2
ENG4118	Robotics 4	20	2
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
MGT5068	Professional Practice 5	20	2

MEng Year 4

Course Code	Course	Credits	Semester
ENG4042	Control 4	20	1
ENG4053	Digital Signal Processing 4	20	1
ENG4118	Robotics 4	20	2
ENG4153	Mechatronic Team Project 4	20	1 & 2
ENG4004	Materials Engineering 4	10	2
ENG4025	Finite Element Analysis 4	10	1
ENG4088	Lasers and Electro-Optic Systems 4	20	1
ENG4094	Mechanics of Solids 4	20	1
ENG4104	Power Systems 4	20	2
ENG4137	Vibration 4	20	2
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
LAW1011	Elements of Law for Engineers	10	2

MEng Year 5

Course Code	Course	Credits	Semester
ENG5009	Advanced Control 5	10	2
ENG5017	Autonomous Vehicle Guidance Systems M	10	2
ENG5031	Fault Detection, Isolation and Reconfiguration	10	2
ENG5299	Dynamics 5	10	2
MGT5068	Professional Practice 5	20	2

AERONAUTICAL ENGINEERING

MEng/BEng Year 3

Course Code	Course	Credits	Semester
ENG3006	Aircraft Design 3	10	2
ENG3015	Control 3	10	2
ENG3034	Instrumentation and Data Systems 3	10	2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3039	Dynamics 3	10	1
ENG3042	Propulsion and Turbomachinery 3	10	1
ENG3059	Aircraft Performance 3	10	1
ENG3060	Flight Mechanics 3	10	2
ENG3062	Aircraft Structural Analysis and Design 3	10	2
ENG3081	Aircraft Structures and Materials 3	10	1

BEng

Course Code	Course	Credits	Semester
ENG4013	Aerospace Design Project 4	10	2
ENG4110P	Individual Project 4	30	1
LAW1011	Elements of Law for Engineers	10	2
ENG4023	Aircraft Vibration and Aeroelasticity 4	10	2
ENG4025	Finite Element Analysis 4	10	1
ENG4037	Computational Fluid Dynamics 4	10	2
ENG4042	Control 4	20	1
ENG4067	Flight Dynamics 4	10	1
ENG4074	High Speed Aerodynamics 4	10	2
ENG4079	Industrial Aerodynamics 4	10	2
ENG4088	Lasers and Electro-Optic Systems M4	20	1
ENG4102	Physics of Fluids 4	10	1
ENG4118	Robotics 4	20	2
ENG4121	Space Flight Dynamics 4	10	1
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4179	Advanced Thermal Engineering 4	20	1
ENG4184	Navigation Systems 4	10	1
ENG4185	Radar and Electro-Optic Systems 4	10	2
ENG4194	Aerospace Propulsion 4	10	2
ENG4196	Rotorcraft Aeromechanics 4	10	2

MEng Year 4

Compulsory Courses

Course Code	Course	Credits	Semester
ENG4014	Aerospace Design Project 4M	20	1 & 2
ENG4023	Aircraft Vibration and Aeroelasticity 4	10	2
ENG4037	Computational Fluid Dynamics 4	10	2
ENG4067	Flight Dynamics 4	10	1
ENG4074	High Speed Aerodynamics 4	10	2
ENG4102	Physics of Fluids 4	10	1
ENG4042	Control 4	20	1
ENG4079	Industrial Aerodynamics 4	10	2
ENG4088	Lasers and Electro-Optic Systems M4	20	1
ENG4118	Robotics 4	20	2
ENG4121	Space Flight Dynamics 4	10	1
ENG4173	Renewable and Sustainable Energy 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4179	Advanced Thermal Engineering 4	20	1
ENG4184	Navigation Systems 4	10	1
ENG4185	Radar and Electro-Optic Systems 4	10	2
ENG4194	Aerospace Propulsion 4	10	2
ENG4196	Rotorcraft Aeromechanics 4	10	2

MEng Year 5

Compulsory Courses

Course Code	Course	Credits	Semester
ENG5014	Aircraft Handling Qualities and Control 5	10	2
LAW1011	Elements of Law for Engineers	10	2
ENG5009	Advanced Control 5	10	2
ENG5017	Autonomous Vehicle Guidance Systems M	10	2
ENG5019	Composite Airframe Structures	10	2
ENG5031	Fault Detection, Isolation and Reconfiguration	10	2
ENG5048	Industrial Aerodynamics M	10	2
ENG5052	Materials Engineering	10	2
ENG5072	Radar and Electro-Optic Systems M	10	2
ENG5081	Spacecraft Systems 2	10	2
ENG5220	Real Time Embedded Programming	20	2
ENG5263	Aeroelasticity and Aeroacoustics 5	10	2
ENG5265	Rotorcraft Aeromechanics M	10	2
ENG5278	Advanced Aerodynamics 5	10	2
ENG5280	Turbulent Flows 5	10	2
ENG5303	Advanced Thermal Engineering 5	10	2
ENG5307	Computational Fluid Dynamics 5	10	2
ENG5313	Aerospace Propulsion M	10	2

AEROSPACE SYSTEMS

MEng/BEng Year 3

Course Code	Course	Credits	Semester
ENG3005	Aerospace Team Design Project 3	10	2
ENG3014	Communication Systems 3	10	1
ENG3015	Control 3	10	2
ENG3023	Electromagnetic Compatibility 3	10	2
ENG3034	Instrumentation and Data Systems 3	10	2
ENG3036	Simulation of Engineering Systems 3	10	1
ENG3039	Dynamics 3	10	1
ENG3042	Propulsion and Turbomachinery 3	10	1
ENG3043	Real Time Computer Systems 3	10	1
ENG3059	Aircraft Performance 3	10	1
ENG3060	Flight Mechanics 3	10	2

BEng Year Compulsory Courses

Course Code	Course	Credits	Semester
ENG4042	Control 4	20	1
ENG4110P	Individual Project 4	30	1 & 2
LAW1011	Elements of Law for Engineers	10	2
ENG4067	Flight Dynamics 4	10	1
ENG4118	Robotics 4	20	2
ENG4121	Space Flight Dynamics 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4184	Navigation Systems 4	10	1
ENG4185	Radar and Electro-Optic Systems 4	10	2
ENG4194	Aerospace Propulsion 4	10	2
ENG4196	Rotorcraft Aeromechanics 4	10	2

MEng Year 4

Course Code	Course	Credits	Semester
ENG4042	Control 4	20	1
ENG4067	Flight Dynamics 4	10	1
ENG4118	Robotics 4	20	2
ENG4121	Space Flight Dynamics 4	10	1
ENG4175	Autonomous Vehicle Guidance Systems 4	10	2
ENG4184	Navigation Systems 4	10	1
ENG4185	Radar and Electro-Optic Systems 4	10	2
ENG4194	Aerospace Propulsion	10	2
ENG4196	Rotorcraft Aeromechanics 4	10	2

MEng Year 5

Course Code	Course	Credits	Semester
ENG5009	Advanced Control 5	10	2
ENG5014	Aircraft Handling Qualities and Control 5	10	2
LAW1011	Elements of Law for Engineers	10	2
ENG5017	Autonomous Vehicle Guidance Systems M	10	2
ENG5031	Fault Detection, Isolation and Reconfiguration	10	2
ENG5072	Radar and Electro-Optic Sys M	10	2
ENG5081	Spacecraft Systems 2	10	2
ENG5220	Real Time Embedded Programming	20	2
ENG5265	Rotorcraft Aeromechanics M	10	2
ENG5313	Aerospace Propulsion M	10	2

Please turn over FAQs

Frequently Asked Questions

- 1 **Question:** You only offer 40/50 credits in one semester for my discipline can I choose from another.
Answer: No, you will need to move discipline completely or find a course in another school.
- 2 **Question:** Can I choose courses from Level 1 or 2.
Answer: No, we do not allow any incoming students to be enrolled onto this. There are no exceptions.
- 3 **Question:** Can I choose courses across multiple levels.
Answer: No, you have to work within the parameters of a single degree programme for Level 3, a single degree programme for Level 4 BEng and finally a combination of courses from a single degree programme in Level 4&5 MEng.
- 4 Changes on arrival are not advised and subject to class capacity.
- 5 There are no resits available on Level 4 & 5 courses. Level 3 courses will have a resit.
- 6 It's your responsibility, together with your home institution to do a course mapping exercise to ensure the subjects you are choosing are suitable. If you have a gap that doesn't fit (point 1) unfortunately Glasgow University Engineering department **will not be able** to accommodate this request.