

BEng (Hons) Aerospace Engineering

Mechanical, Materials and Manufacturing Engineering/Faculty of Science and Engineering

Year 1 Modules

Module Code	Module Title	Credits
CELEN120	Foundation Algebra	20
CELEF008	Introduction to Academic Skills	10
CELEN038	The Scientific Method	10
CELEN122	Foundation Electromagnetism and Mechanics	20
CELEN037	Foundation Calculus and Mathematical Techniques	20
CELEN040	Foundation Chemistry	10
CELEN052	English in Specific Academic Contexts B (Engineering; Comp Sci; Env'mental Sci & Architecture)	20
CELEN082	Oral Communication Skills B	10

Year 2 Modules

Module Code	Module Title	Credits
AERO1000	Aerospace Design and Materials	20
AERO1001	Aerospace Statics and Dynamics	20
AERO1002	Aerospace Aerodynamics	20
AERO1003	Aircraft design and Performance	20

AERO1004	Integrated Project and Maths 1	20
AERO1005	Aerospace Electronic Engineering and Computing	20

Year 3 Modules

Module Code	Module Title	Credits
AERO2000	Aerospace Design and Manufacture	20
AERO2001	Aerospace Structures and Dynamics	20
AERO2002	Thermodynamics and Aerospace Propulsion	20
AERO2003	Flight Dynamics and Control	20
AERO2004	Integrated Project and Maths 2	20
AERO2005	Aerospace Electrical Engineering and Applications	20

Year 4 Modules

Compulsory Modules

Module Code	Module Title	Credits
AERO3009	Computer Modelling Techniques	20
AERO3010	BEng Individual Project	40
AERO3000	Management and Professional Practice	20

Optional Modules

Module Code	Module Title	Credits
AERO3005	Space and Astronautics	20
AERO3004	Hybrid and Electric Powertrains for Aerospace	20
AERO3007	Advanced Aerodynamics	20