

BEng (Hons) Product Design and Manufacture

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

Year 1 Modules

The preliminary year is designed to help you develop your English language skills so that you can make the most of your degree programme.

This special English language programme designed by the English for Academic Purposes experts at the University's Centre for English Language Education is carefully integrated with academic content modules so that you are prepared fully for years two to four of your degree programme.

Module Code	Module Title	Credits
CELEF008	Introduction to Academic Skills	10
CELEN038	The Scientific Method	10
CELEF005	Foundation Algebra	20
CELEN056	Electricity and Magnetism	10
CELEN057	Foundation Mechanics	10
CELEF003	Foundation Calculus	20
CELEF006	English for Specific Academic Purposes: Science and Engineering	10
CELEN040	Foundation Science B: Chemistry	15
CELEN058	Further Foundation Mechanics	15

Year 2 Modules

Module Code	Module Title	Credits
MMME1014	Industrial Design Professional Practice	20
MMME1020	Drawing For Design	20
MMME1039	Statics and Dynamics	20
MMME1044	Engineering Design and Design Project	20
MMME1043	Materials and Manufacturing	20
MMME1042	Mathematics for Engineers	20

Year 3 Modules

You will develop additional design skills and commercial awareness in year two. There are several design projects throughout the year, complemented by modules in the areas of design techniques, manufacturing, ergonomics and business.

Module Code	Module Title	Credits
MMME2015	Materials in Design	10
MMME2023	2nd Year Design Projects	20
MMME2039	Design Communication	20
MMME2040	Industrial Design and Professional practice 2	20
MMME2020	Design for Manufacture	10
MMME2024	2nd Year Group Design Project	20
MMME2041	User Centred Research and Design	20

Year 4 Modules

You continue to develop design skills through project work, and the modules studied become more in-depth. This includes a significant design project undertaken in the final semester, along with a dissertation. By the end of the course, you will have developed skills in product design, materials, and manufacture that will enable you to undertake creative professional practice in the fields of product design or product development.

Compulsory Modules

Module Code	Module Title	Credits
MMME3034	RSA Design Projects	20
MMME3035	Manufacturing Process Capability	10
MMME3095	Major Design Project Preparation	10
MMME3096	Industrial Design Professional Practice 3B	10
MMME3033	BEng Major Design Project	60

Optional Modules

Module Code	Module Title	Credits
MMME3024	Computer Aided Engineering	10
MMME2012	Engineering Management 1	10