



Manufacturing Technology and Management

MSc/PgDip/PgCert

Manufacturing underpins the success of the economy. The rise of the 4th industrial revolution produces new and exciting business opportunities globally. Choose from optional modules to specialise your study. Cover the breadth of both technical and business skills in order to make a real impact in your chosen career.

Course structure

The Manufacturing Technology and Management course is made up of three components: a formal taught component comprising eight modules (40%), Group Project (20%) and Individual Thesis Project (40%).

Individual project

The individual thesis project offers students the opportunity to develop their research capability, depth of understanding and ability to provide world-class technical and business engineering service solutions to real problems in manufacturing.

Group project

The group project experience is highly valued by both students and prospective employers. Teams of students work to solve an industrial problem. The project applies technical knowledge and provides training in teamwork and the opportunity to develop non-technical aspects of the taught programme. Part-time students can prepare a dissertation on an agreed topic in place of the group project.

Future career

Students have the opportunity to consider leadership roles across a range of sectors that are required to drive UK high value manufacturing forward. This course gives students the opportunity to go on to leadership roles in a range of sectors that are required to drive UK high value manufacturing forward and provide the vision for future prosperity.

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For further information please visit
www.cranfield.ac.uk/mtm

Example modules

Modules form only part of the course, with the project(s) and theses making up the balance. Please see the course structure for details.

The list below shows the modules offered in the 2019-20 academic year, to give you an idea of course content. To keep our courses relevant and up-to-date, modules are subject to change – please see the webpage for the latest information.

Compulsory:

- General Management,
- Introduction to Manufacturing and Research Techniques,
- Lean Product Development.

Elective (choose four):

- Additive and Subtractive Manufacturing Technologies,
- Advanced Welding Processes,
- Composites Joining, Repair and Serviceability,
- Composites Manufacturing for High Performance Structures,
- Finite Element Analysis,
- Functional Coatings and Thin Films,
- Introduction to Materials Engineering,
- Manufacturing,
- Nano and Advanced Composites,
- Operations Analysis,
- Operations Management,
- Surface Science and Engineering.

Duration:

MSc: Full-time - one year, Part-time - up to three years,
PgDip: Full-time - up to one year, Part-time - two years,
PgCert: Full-time - up to one year, Part-time - two years.

Start date:

Full-time: October. Part-time: throughout the year.

Location:

Cranfield Campus.

Entry requirements:

A first or second class UK Honours degree or the international equivalent of these UK qualifications. Other relevant qualifications, together with significant experience, may be considered. Suitable for manufacturing engineers keen to develop their skills and knowledge in the development and application of disruptive technologies, needed to address the Government's high value manufacturing agenda.

Applicants who do not fulfil the standard entry requirements can apply for the Pre-master's course, successful completion of which will qualify them for entry to this course for a second year of study.

ATAS Certificate:

Students requiring a visa to study in the UK may need to apply for an ATAS certificate to study this course.