



Through-life System Sustainment

MSc

This course provides an essential foundation for future leaders in organisations who wish to optimise the value in-use and cost in-use for long-life engineering assets such as planes, trains, ships, vehicles, power-plants, machine tools, buildings etc.

Many of the premier UK industrial organisations are increasingly dependent upon Through-life Engineering Services (TES) to compete, gain market share, generate revenue and profit. This course offers through-life thinking to enable change leaders in organisations to embrace new and integrated approaches to develop superior through-life support capability to meet shareholder and stakeholder demands.

Course structure

The MSc course comprises eight assessed modules (in the form of six assignments and two exams), in which students gain an understanding of world-class business practice, an industry led group and an individual project. Students are also supported through individual coaching and an online learning platform.

This part-time course is undergoing approval to meet the requirements of the Level 7 Through-life Engineering Specialist Apprenticeship Standard.

Individual project

The individual project allows students to demonstrate their ability to think and work in an original way and overcome genuine real life challenges. Your sponsor nominates the topic - the individual project is conducted in the workplace.

Group project

The group project gives a team of students the opportunity to take on responsibility for a consultancy type project working for an industrial sponsor. The group project is determined in collaboration with the sponsor organisation and will aim to solve real-world problems. Note: A dissertation can replace the group project.

Future career

Successful completion of this course takes you onto careers with higher levels of responsibility, a broader base of skills and capability and a greater level of professionalism.

Example modules

Modules form only part of the course, with the project(s) and these 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:

- Managing Assets and Value
- System Effectiveness
- Leadership and Change Management
- Optimising Whole Life Cost and Performance Management
- Operational Availability and Risk
- Through Life Business Models and Requirements Management
- Information Management
- Diagnostics and Prognostics.

Duration:

MSc: Part-time - up to three years.

Start date:

Anytime.

Location:

Cranfield Campus/Shrivenham.

Entry requirements:

Candidates are expected to have at least two years relevant experience in industry together with a first or second class UK Honours degree in a relevant engineering or technology-based discipline, or the international equivalent of these UK qualifications. Alternative qualifications together with additional industrial experience have also been considered.

ATAS Certificate:

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

Contact details

T: +44 (0)1234 758083

E: studymanufacturing@cranfield.ac.uk

For further information please visit

www.cranfield.ac.uk/ThroughLifeMasters