



Defence Academy
of the United Kingdom

Cranfield
UNIVERSITY

College of Management and Technology

MSc | PgDip | PgCert

Systems Engineering for Defence Capability



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Normally a 1st or 2nd class honours degree or equivalent in an appropriate discipline. Alternatively, a lesser qualification with relevant professional experience may be acceptable. Students whose native language is not English must attain an IELTS score of 7.

Part-time students are required to attend the college for approximately 5 days per module.

Duration

MSc

Full-time: Minimum 45 weeks
Maximum 48 weeks

Part-time: Minimum 90 weeks
Maximum 5 years

PgDip

Full-time: Minimum 24 weeks
Maximum 40 weeks

Part-time: Minimum 48 weeks
Maximum 4 years

PgCert

Full-time: Minimum 12 weeks
Maximum 20 weeks

Part-time: Minimum 24 weeks
Maximum 3 years

Number of places

Full-time maximum of 20

Start date

Full-time September

Part-time September, January

Course Code

SEDCMSC



Suitable for those involved in complex defence capability problems and solutions across all Defence Lines of Development.

The course provides a comprehensive coverage of modern Systems Engineering principles, practices, methods and tools; with particular emphasis on practical application through case studies and student investigation, to develop skills in understanding and resolving complex problems in the real world.

You can study the course in two variants:

- full-time
- flexible part-time

Both variants are delivered by a combination of classroom based lectures, workshops and exercises supported by the Shrivenham Virtual Learning Environment. Assessment methods include individual and group coursework, examination and an individual research thesis (only for the MSc).

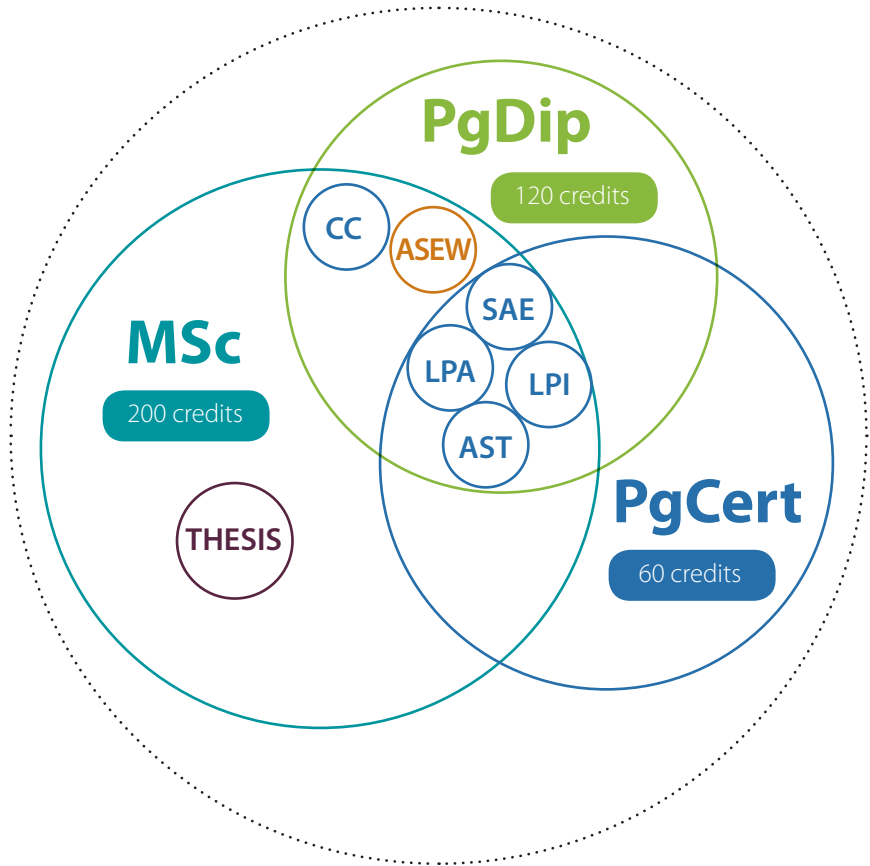
You will be taught by faculty from the Defence Academy – College of Management and Technology, many of them world leaders in their field, who understand the problems of translating theory into practice. Visiting lecturers include experts from industry, the military, research establishments and Government departments, particularly MOD.

Career opportunities

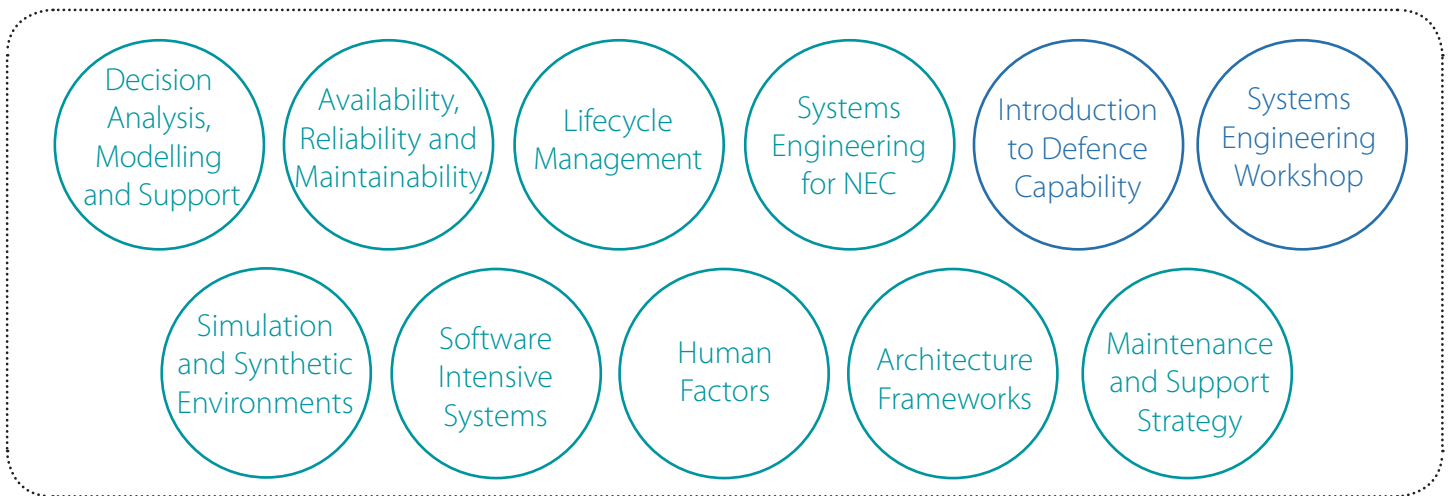
Leads on to impressive career prospects across a range of roles commensurate with your experience. This includes membership of multi-disciplinary teams within organisations contributing towards directing, acquiring, developing, generating and enabling defence capability. This could be in the form of general Systems Engineering roles or as a focal point for specific skills in areas such as Availability, Reliability and Maintainability, Human Factors, Requirements, Architecture and Test and Evaluation.

Compulsory Modules

- SAE** Systems Approach to Engineering
- LPI** Lifecycle Processes Introduction
- LPA** Lifecycle Processes Advanced
- CC** Capability Context
- AST** Applied Systems Thinking
- ASEW** Advanced Systems Engineering Workshop



Electives



Benefits of the programme

The course offers a flexible programme in Systems Engineering for Defence Capability (SEDC); designed to teach the principles, procedures and practices of systems engineering in the defence context, offering some choice and specialisation to students with varied backgrounds, interests and work requirements.

This course applies the principles and practices of Systems Engineering to all aspects of Defence.

Funding is free for MOD students via the Academic Provider Contract. International, other government departments and all other students please contact:
 E prospectus.shrivenham@cranfield.ac.uk

For further information on the application process please contact:
 Postgraduate Course Administration
 T +44 (0) 1793 785810
 F +44 (0) 1793 314901
 E prospectus.shrivenham@cranfield.ac.uk



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"If education
prepares the
individual for the
unknown...
then we must
have more
education."

Lieutenant General Andrew Figures CBE
Former Deputy Chief of Defence Staff
(Equipment Capability)

