

FACULTY OF ENGINEERING

DEPARTMENT OF DESIGN MANUFACTURE AND ENGINEERING MANAGEMENT

SYSTEMS ENGINEERING MANAGEMENT

Doctor of Engineering in Systems Engineering Management

For regulations relating to admissions, duration of study, examinations, progress, final assessment, award and research elements of this degree, please refer to the [General Academic Regulations - Postgraduate Research Degree Regulations](#).

For regulations relating to taught (compulsory/optional) modules, please refer to the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Admission

1. See [General Academic Regulations - Postgraduate Research Degree Regulations](#).

Duration of Study

2. See [General Academic Regulations - Postgraduate Research Degree Regulations](#).

Mode of Study

3. The programme is available by full-time study only.

Place of Study

4. Students will spend approximately 75% of their time undertaking a well-defined research project or portfolio of projects in collaboration with an industrial partner. The research will run continuously throughout the duration of the programme and will be undertaken mainly in the industrial partners' premises.

Curriculum

5. All students shall undertake an approved curriculum as follows:

First Year

Compulsory Modules

Module Code	Module Title	Level	Credits
DM918	People, Organisation and Technology	5	10
DM932	Postgraduate Individual Project	5	60
DM933	Engineering Risk Management	5	10
DM945	Systems Thinking and Modelling	5	10

DM993	Systems Architectures & Design	5	10
DM994	Systems Engineering Concepts	5	10
EF927	Design Management	5	10

Optional Modules

No fewer than 60 credits chosen from:

Module Code	Module Title	Level	Credits
DM920	Strategic Technology Management	5	10
DM923	Product Modelling and Visualisation	5	10
DM927	Strategic Supply Chain Management	5	10
DM934	Design Methods	5	10
DM943	Sustainable Product Design and Manufacture	5	10
DM944	Product Costing & Financial Management	5	10
DM949	DoE for Optimisation	5	10
EF945	Knowledge & Information Management for Engineers	5	10
MS926	Business Simulation Methods	5	10

Exceptionally, such other modules totalling no more than 20 credits as approved by the Programme Leader.

Second, Third and Fourth Years

All students shall undertake a Doctoral Research Project. Research projects are allocated to students from an approved list at the start of the programme and the normal supervisory and progression requirements for doctoral awards apply (see the [General Academic Regulations - Postgraduate Research Degree Regulations](#)).

Examination, Progress and Final Assessment

- Candidates are required to perform to the satisfaction of the Board of Examiners in the taught component of the programme. In addition, students must satisfy the general regulations associated with the award of a doctoral research degree as specified in the [General Academic Regulations - Postgraduate Research Degree Regulations](#).

7. Candidates will normally be expected to attain 180 credits before being permitted to commence work on a doctoral research project.
8. Candidates who fail to satisfy the Board of Examiners in any taught module shall be permitted one further attempt to pass the relevant module(s), normally in the same academic year.

Award

9. **Degree of EngD:** In order to qualify for the award of the degree of EngD in Systems Engineering Management, a candidate must have performed to the satisfaction of the Board of Examiners and must have:
 - i. accumulated no fewer than 180 credits from the programme curriculum
 - ii. submitted a piece of satisfactory original research in the form of a portfolio as specified in the [General Academic Regulations - Postgraduate Research Degree Regulations](#)
 - iii. performed satisfactorily in an oral examination.

Transfer

10. A candidate who fails to satisfy the progress and award requirements for the award of the EngD may be transferred to the MSc Systems Engineering Management, Postgraduate Diploma or Postgraduate Certificate in Systems Engineering Management.