

FACULTY OF ENGINEERING

DEPARTMENT OF DESIGN, MANUFACTURING AND ENGINEERING MANAGEMENT

SYSTEMS ENGINEERING MANAGEMENT

Master of Science in Systems Engineering Management
Postgraduate Diploma in Systems Engineering Management
Postgraduate Certificate in Systems Engineering Management

These regulations are to be read in conjunction with [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Admission

1. Notwithstanding the [General Academic Regulations – Postgraduate Taught Degree Programme Level](#), which will usually apply, suitably qualified candidates from one of the Department's approved industry partners may be admitted to this programme, provided they have appropriate industry experience and/or relevant qualifications. Applications from industry partners will be considered on a case-by-case basis and students will follow a clearly defined curriculum as outlined below.

Duration of Study

2. The [General Academic Regulations – Postgraduate Taught Degree Programme Level](#) shall apply.

Nature of Study

3. The programme is available by full-time and part time study.

Curriculum

4. All students shall undertake an approved curriculum as follows:
 - i. for the Postgraduate Certificate no fewer than 60 credits
 - ii. for the Postgraduate Diploma no fewer than 120 credits
 - iii. for the degree of MSc no fewer than 180 credits

Compulsory Modules (Full-time Students)

| Module Code | Module Title | Level | Credits |
|-------------|-------------------------------------|-------|---------|
| DM918 | People, Organisation and Technology | 5 | 10 |
| DM920 | Strategic Technology Management | 5 | 10 |
| DM931 | Postgraduate Group Project | 5 | 40 |
| 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 |

| Students for the degree of MSc only: | | | |
|---|---------------------------------|---|----|
| DM932 | Postgraduate Individual Project | 5 | 60 |

Compulsory Modules (Part-time Students)

| Module Code | Module Title | Level | Credits |
|---|---|--------------|----------------|
| DM918 | People, Organisation and Technology | 5 | 10 |
| OR | | | |
| DM810 | People, Organisation and Leadership (online) | 5 | 10 |
| DM920 | Strategic Technology Management | 5 | 10 |
| OR | | | |
| DM814 | Technology and Innovation Management (online) | 5 | 10 |
| DM931 | Postgraduate Group Project | 5 | 40 |
| DM933 | Engineering Risk Management | 5 | 10 |
| OR | | | |
| DM805 | Engineering Risk Management (online) | 5 | 10 |
| DM945 | Systems Thinking and Modelling | 5 | 10 |
| OR | | | |
| DM808 | Introduction to Systems Thinking, Modelling and Optimisation (online) | 5 | 10 |
| DM993 | Systems Architectures & Design | 5 | 10 |
| DM994 | Systems Engineering Concepts | 5 | 10 |
| Students for the degree of MSc only: | | | |
| DM932 | Postgraduate Individual Project | 5 | 60 |

Optional Modules

All students must choose no fewer than 20 credits from the list below:

| Module Code | Module Title | Level | Credits |
|--------------------|-------------------------------------|--------------|----------------|
| 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 |
| DM951 | Design for Industry 4 and Smart Products | 5 | 10 |
| EF927 | Design Management | 5 | 10 |
| EF931 | Project Management | 5 | 10 |
| OR | | | |
| DM811 | Project Management (online) | 5 | 10 |
| MS926 | Business Simulation Methods | 5 | 10 |

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

ADMISSION VIA AN APPROVED INDUSTRY PARTNER ONLY:

Compulsory Modules

| Module Code | Module Title | Level | Credits |
|-------------|---|-------|---------|
| DM718 | People, Organisation and Technology | 5 | 10 |
| OR | | | |
| DM810 | People, Organisation and Leadership (online) | 5 | 10 |
| DM720 | Strategic Technology Management | 5 | 10 |
| OR | | | |
| DM814 | Technology and Innovation Management (online) | 5 | 10 |
| DM731 | Postgraduate Group Project | 5 | 30 |
| DM733 | Engineering Risk Management | 5 | 10 |
| OR | | | |
| DM805 | Engineering Risk Management (online) | 5 | 10 |
| DM744 | Product Costing & Financial Management | 5 | 10 |
| DM745 | Systems Thinking and Modelling | 5 | 10 |
| OR | | | |
| DM808 | Introduction to Systems Thinking, Modelling and Optimisation (online) | 5 | 10 |
| DM751 | Design for Industry 4 and Smart Products | 5 | 10 |

| | | | |
|---|--|---|----|
| DM793 | Systems Architectures & Design | 5 | 10 |
| DM794 | Systems Engineering Concepts | 5 | 10 |
| DM795 | Policy Analysis of Economically Complex environments | 5 | 10 |
| Students for the degree of MSc only: | | | |
| DM732 | Postgraduate Individual Project | 5 | 60 |

Examination, Progress and Final Assessment

5. The [General Academic Regulations – Postgraduate Taught Degree Programme Level](#) shall apply.
6. The final award will be based on performance in the examinations, coursework and the Postgraduate Individual Project where undertaken.

Award

7. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Systems Engineering Management, a candidate must have performed to the satisfaction of the Board of Examiners and must normally have accumulated no fewer than 180 credits of which 60 must have been awarded in respect of the Individual Project (DM932 or DM732).
8. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Systems Engineering Management, a candidate must have accumulated no fewer than 120 credits from the programme curriculum including all the compulsory modules.
9. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Systems Engineering Management, a candidate must have accumulated no fewer than 60 credits from the programme curriculum.