

# 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

<b>Students for the degree of MSc only:</b>			
DM932	Postgraduate Individual Project	5	60

**Compulsory Modules (Part-time Students)**

<b>Module Code</b>	<b>Module Title</b>	<b>Level</b>	<b>Credits</b>
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
<b>Students for the degree of MSc only:</b>			
DM932	Postgraduate Individual Project	5	60

**Optional Modules**

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

<b>Module Code</b>	<b>Module Title</b>	<b>Level</b>	<b>Credits</b>
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
<b>Students for the degree of MSc only:</b>			
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.