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. Postgraduate Certificate no fewer than 60 credits from the list of taught modules;
   ii. Postgraduate Diploma no fewer than 120 credits from the list of taught modules;
   iii. degree of MSc no fewer than 180 credits, including the Postgraduate Individual Project.

Compulsory Modules (Full-time Students)

Module Code	Module Title	Level	Credits
DM918	People, Organisation and Technology	5	10
DMXXX	Management of Technology and Innovation	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
DMXXX	Management of Technology and Innovation	5	10
OR			
DMXXX	Management of Technology and Innovation (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
DM943	Sustainable Product Design and Manufacture	5	10

DMXXX	Digital Manufacturing and Smart Products	5	10
EF950	Design Methods and Management	5	10
EF931	Project Management	5	10
OR			
DM811	Project Management (online)	5	10
MS926	Business Simulation Methods	5	10

Exceptionally, such other Level 5 modules totalling no more than 10 credits, as approved by the Programme Leader.

Not all optional modules on this list will be available in each academic year. Please check your programme handbook for confirmation of which optional modules will run.

Full-time students: permitted to select up to 20 credits of online-delivery modules (applicable to Optional modules ONLY, Compulsory modules must be undertaken on campus.)

Part-time students: permitted to select up to 30 credits of online-delivery modules (applicable to Compulsory and/or Optional modules.)

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			
DMXXX	Management of Technology and Innovation (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 taught modules of the programme curriculum.

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 taught modules of the programme curriculum.