

# **FACULTY OF ENGINEERING**

## **DEPARTMENT OF DESIGN, MANUFACTURING AND ENGINEERING MANAGEMENT**

### **TECHNOLOGY VENTURES WITH SYSTEMS ENGINEERING MANAGEMENT**

**Master of Science in Technology Ventures with Systems Engineering Management**  
**Postgraduate Diploma in Technology Ventures with 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](#), successful applicants shall possess:
  - i. a first or second class Honours degree in an Engineering, Design, Product Development, Science or Technology subject; or
  - ii. a qualification deemed by the Programme Director acting on behalf of the Senate to be equivalent to (i) above; or
  - iii. have satisfactorily obtained 99 CMU units of study (150 credits) from the MS in Technology Ventures at Carnegie Mellon University, including the Master of Science Technology Ventures Internship.
2. In all cases, applicants whose first language is not English, shall be required to demonstrate an appropriate level of English.

#### **Duration of Study**

3. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

#### **Nature of Study**

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

#### **Curriculum**

5. 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 including a project.

#### **Compulsory Modules**

<b>Module Code</b>	<b>Module Title</b>	<b>Level</b>	<b>Credits</b>
DM918	People, Organisation and Technology	5	10
DM931	Postgraduate Group Project	5	40
DM933	Engineering Risk Management	5	10

DM945	Systems Thinking and Modelling	5	10
DM993	Systems Engineering Concepts	5	10
DM994	Systems Architectures & Design	5	10

### Students for the degree of MSc only

Module Code	Module Title	Level	Credits
DM932	Postgraduate Individual Project	5	60

### Optional Modules

No fewer than 30 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
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 Director.

### Examination, Progress and Final Assessment

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

### Award

- Degree of MSc:** In order to qualify for the award of the degree of MSc in Technology Ventures with 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.

9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Technology Ventures with Systems Engineering Management, a candidate must have accumulated no fewer than 120 credits from the programme curriculum.
10. **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.