

# FACULTY OF ENGINEERING

## DEPARTMENT OF DESIGN, MANUFACTURING AND ENGINEERING MANAGEMENT

### DIGITAL MANUFACTURING

Master of Science in Digital Manufacturing  
Postgraduate Diploma in Digital Manufacturing  
Postgraduate Certificate in Digital Manufacturing

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

#### Admission

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

#### Duration of Study

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

#### Place of Study

3. As permitted by the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#), some off-campus work may be required.

#### Mode of Study

4. The programmes may be available by full-time or part-time study.

#### 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 the DM932 project

#### Compulsory Modules

Module Code	Module Title	Level	Credits
DM939	Digital Manufacturing Concepts	5	10
DM942	Manufacturing Automation	5	10
DM986	Mechatronic Systems Design Techniques	5	10
DM951	Design for Industry 4 and Smart Products	5	10
DM9xx	Intelligent Sensing and Reasoning through Machine Learning	5	10
DM931	Postgraduate Group Project	5	40

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

### **Optional Modules**

No fewer than 30 credits chosen from:

Module Code	Module Title	Level	Credits
DM948	Advanced Materials & Production Technology	5	10
DM946	Micro- and Nano-Manufacturing	5	10
DM945	Systems Thinking and Modelling	5	10
DM943	Sustainable Product Design & Manufacturing	5	10
DM981	Management of Innovation	5	10
DM920	Strategic Technology Management	5	10

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

Not all optional modules in this list will be available each year.

### **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 DM932 Postgraduate Individual Project where undertaken.

### **Award**

- Degree of MSc:** In order to qualify for the award of the degree of MSc in Digital Manufacturing, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits, of which 60 must have been awarded in respect of the DM932 Postgraduate Individual Project.
- Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Digital Manufacturing, a candidate must have accumulated no fewer than 120 credits from the programme curriculum.
- Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Digital Manufacturing, a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme.