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.

Mode of Study
3. The programmes may be available by full-time or 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 including the DM932 project

Compulsory Modules

Module Code	Module Title	Level	Credits
DM931	Postgraduate Group Project	5	40
DM939	Digital Manufacturing	5	10
DM942	Manufacturing Automation	5	10
DM951	Design for Industry 4 and Smart Products	5	10
DM954	Intelligent Sensing and Reasoning through Machine Learning	5	10
DM986	Mechatronic Systems Design Techniques	5	10
Students for the degree of MSc only:			
DM932	Postgraduate Individual Project	5	60

<u>Optional Modules</u>

No fewer than 30 credits chosen from:

Module Code	Module Title	Level	Credits
DM920	Strategic Technology Management	5	10
OR			
DM814	Technology and Innovation Management (online)	5	10
DM943	Sustainable Product Design & Manufacturing	5	10
DM945	Systems Thinking and Modelling	5	10
OR			
DM808	Introduction to Systems Thinking, Modelling and Optimisation (online)	5	10
DM946	Micro- and Nano-Manufacturing	5	10
DM948	Advanced Materials & Production Technology	5	10
DM981	Management of Innovation	5	10
DM994	Systems Engineering Concepts	5	10
EE992	Neural Networks and Deep Learning	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
5. See General Academic Regulations - Postgraduate Taught Degree Programme Level.

6. The final award will be based on performance in the examinations, coursework, and the DM932 Postgraduate Individual Project where undertaken.

Award
7. **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.

8. **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.

9. **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.