

University of Pretoria Yearbook 2017

MSc Engineering Management (Coursework) (12251077)

Duration of study 2 years

Total credits 180

Programme information

Unless the Dean, on recommendation of the relevant head of department, decides otherwise, the master's degree is conferred on the basis of examinations of coursework and a mini-dissertation or a dissertation (including an examination on the dissertation). A minimum of 256 credits is required for the MEng (Engineering Management), MEng (Project Management), MSc (Engineering Management) and the MSc (Project Management), including a mini-dissertation (64 credits) and coursework (192 credits). Recognition is not granted for credits acquired during studying for the BEngHons or the BScHons. The curriculum is determined in consultation with the relevant head of department. Any specific module is offered on condition that a minimum number of students are registered for the module, as determined by the head of department and the Dean. Students must consult the relevant head of department in order to compile a meaningful programme, as well as for information on the syllabi of the modules. The various departmental postgraduate brochures should also be consulted.

Admission requirements

The admission requirement for the MSc (Engineering Management) is a BScHons or equivalent qualification.

Examinations and pass requirements

The stipulations of the relevant Faculty regulations are applicable.

The Dean may, on recommendation of the relevant head of department, exempt a student from the examination on the dissertation.

Guidelines for the preparation and examination of mini-dissertations are available from all departments. The average mark awarded by all the examiners is the final mark, with the pass mark being at least 50%.

Research information

A student must by means of a dissertation or mini-dissertation prove that he or she is capable of planning, instituting and executing a scientific investigation. Unless the Senate, on the recommendation of the supervisor, decides otherwise, a student, before or on submission of a dissertation, must submit proof issued by a recognised academic journal that an article was submitted, to the Head: Student Administration. The draft article should be based on the research that the student has conducted for the

dissertation and be approved by the supervisor if the supervisor is not a co-author. The supervisor shall be responsible for ensuring that the paper is taken through all the processes of revision and resubmission, as may be necessary. Conferment of the degree may be made subject to compliance with the stipulations of this regulation.

Pass with distinction

- i. A student who submits a dissertation passes with distinction if an average mark of at least 75% is obtained for the dissertation (and the examination on the dissertation).
- ii. A student who completes the master's degree on grounds of coursework and a mini-dissertation, passes with distinction if a weighted average mark of at least 75% is obtained in the first 128 credits obtained for the degree [first 256 credits in the case of the MEng (Engineering Management), MEng (Project Management), MSc (Engineering Management) or the MSc (Project Management)], provided that 64 of these credits are allocated to the mini-dissertation. However, the degree is not awarded with distinction should a student fail any of these modules (excluding modules which have been timeously discontinued). The degree is also not awarded with distinction if a student obtains less than 70% for the mini-dissertation.



Curriculum: Year 1

Minimum credits: 80

Core modules

Maintenance management 801 (IIB 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1 or Semester 2

Literature study 801 (ILS 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 2

Project management 803 (IPK 803)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 2

Production and operations management 801 (IPP 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1



Systems engineering and management 801 (ISE 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1

Technology management 801 (ITB 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1

People management 883 (PEM 883)

Module credits	10.00
Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	No prerequisites.
Contact time	2 web-based periods per week, 3 discussion classes per week, 16 lectures per week
Language of tuition	Module is presented in English
Academic organisation	Human Resource Management
Period of presentation	Semester 2

Research methodology 800 (INI 800)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1 or Semester 2



Curriculum: Final year

Minimum credits: 100

Core modules

Financial management 830 (FBS 830)

Module credits	10.00
Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	No prerequisites.
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Academic organisation	Financial Management
Period of presentation	Semester 2

Mini-dissertation 898 (ISC 898)

Module credits	60.00
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Year

Strategic management 801 (ISM 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 2

Elective modules

Engineering asset management 801 (IAM 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt



Period of presentation	Semester 1
-------------------------------	------------

Reliability engineering 801 (IBI 801)

Module credits	10.00
-----------------------	-------

Prerequisites	No prerequisites.
----------------------	-------------------

Contact time	20 contact hours per semester
---------------------	-------------------------------

Language of tuition	Module is presented in English
----------------------------	--------------------------------

Academic organisation	Engineering and Technology Mgt
------------------------------	--------------------------------

Period of presentation	Semester 2
-------------------------------	------------

Marketing management 801 (IIM 801)

Module credits	10.00
-----------------------	-------

Prerequisites	No prerequisites.
----------------------	-------------------

Contact time	12 discussion classes
---------------------	-----------------------

Language of tuition	Module is presented in English
----------------------------	--------------------------------

Academic organisation	Engineering and Technology Mgt
------------------------------	--------------------------------

Period of presentation	Semester 1
-------------------------------	------------

Engineering logistics 801 (IIX 801)

Module credits	10.00
-----------------------	-------

Prerequisites	No prerequisites.
----------------------	-------------------

Contact time	20 contact hours per semester
---------------------	-------------------------------

Language of tuition	Module is presented in English
----------------------------	--------------------------------

Academic organisation	Engineering and Technology Mgt
------------------------------	--------------------------------

Period of presentation	Semester 2
-------------------------------	------------

Information management 884 (ILB 884)

Module credits	10.00
-----------------------	-------

Prerequisites	No prerequisites.
----------------------	-------------------

Contact time	22 other contact sessions per week, 2 web-based periods per week, 14 lectures per week, 6 discussion classes per week
---------------------	---

Language of tuition	Module is presented in English
----------------------------	--------------------------------

Academic organisation	Informatics
------------------------------	-------------

Period of presentation	Semester 1
-------------------------------	------------

Legal aspects of project management 803 (ILC 803)

Module credits	10.00
-----------------------	-------



Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 2

New ventures and entrepreneurship 801 (IOE 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1 or Semester 2

Project quality management 801 (IQM 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1 or Semester 2

Decision analysis and risk management 801 (IRI 801)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Academic organisation	Engineering and Technology Mgt
Period of presentation	Semester 1

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.