

University of Pretoria Yearbook 2017

BEngHons Mechanical Engineering (12240052)

Duration of study	1 year
Total credits	128

Programme information

Also consult the General Regulations G.16 to G.29.

The curriculum is determined in consultation with the relevant heads of departments. A student is required to pass modules to the value of at least 128 credits.

The degree is awarded on the basis of examinations only.

Admission requirements

Subject to the stipulations of Reg. G.1.3 and G.54, a BEng degree or equivalent qualification is required for admission.

Other programme-specific information

All students must complete the module MSS 732 Research study 732 listed below.

A limited number of appropriate modules from other departments are allowed. Not all modules liste are presented each year. Please consult the departmental post- grad brochure.

Examinations and pass requirements

- i. The examination in each module for which a student is registered, takes place during the normal examination period after the conclusion of lectures (i.e. October/November or May/June).
- ii. A student registered for the honours degree must complete his or her studies within two years (full-time), or within three years (part-time) after first registration for the degree: Provided that the Dean, on recommendation of the relevant head of department, may approve a stipulated limited extension of this period.
- iii. A student must obtain at least 50% in an examination for each module where no semester or year mark is required. A module may only be repeated once.
- iv. In modules where semester or year marks are awarded, a minimum examination mark of 40% and a final mark of 50% is required.
- v. No supplementary or special examinations are granted at postgraduate level.



Pass with distinction

A student passes with distinction if he or she obtains a weighted average of at least 75% in the first 128 credits for which he or she has registered (excluding modules which were discontinued timeously). The degree is not awarded with distinction if a student fails any one module (excluding modules which were discontinued timeously).



Curriculum: Final year

Minimum credits: 128

MSS 732 compulsory module / verpligte module

Core modules

Aeroelasticity 780 (MAE 780) - Credits: 16.00 Aircraft propulsion 780 (MAY 780) - Credits: 16.00 Control Systems 780 (MBB 780) - Credits: 16.00 Advanced finite element methods 781 (MEE 781) - Credits: 16.00 Condition-based maintenance 780 (MIC 780) - Credits: 16.00 Maintenance practice 780 (MIP 780) - Credits: 16.00 Reliability engineering 781 (MIR 781) - Credits: 16.00 Aerodynamics 780 (MLD 780) - Credits: 16.00 Air conditioning and refrigeration 780 (MLR 780) - Credits: 16.00 Aeronautical structures 780 (MLT 780) - Credits: 16.00 Flight mechanics 780 (MLV 780) - Credits: 16.00 Optimum design 780 (MOO 780) - Credits: 16.00 Fracture mechanics 780 (MSF 780) - Credits: 16.00 Numerical thermoflow 780 (MSM 780) - Credits: 16.00 Numerical thermoflow 781 (MSM 781) - Credits: 16.00 Research study 732 (MSS 732) - Credits: 32.00 Fatigue 780 (MSV 780) - Credits: 16.00 Fluid mechanics 780 (MSX 780) - Credits: 16.00 Numerical methods 780 (MWN 780) - Credits: 16.00 Advanced heat and mass transfer 780 (MHM 780) - Credits: 16.00 Advanced fluid mechanics 781 (MSX 781) - Credits: 16.00 Advanced thermodynamics and energy systems 781 (MTX 781) - Credits: 16.00 Experimental structural dynamics 783 (MSY 783) - Credits: 16.00 Reactor coolant flow and heat transfer 782 (MUA 782) - Credits: 16.00 Reactor materials engineering 785 (MUA 785) - Credits: 16.00 Reactor materials engineering 786 (MUA 786) - Credits: 16.00 Specialised structural mechanics 781 (MSY 781) - Credits: 16.00 Reactor engineering science 783 (MUA 783) - Credits: 16.00 Reactor physics 784 (MUA 784) - Credits: 16.00 Specialised design 781 (MOX 781) - Credits: 16.00 Specialised design 782 (MOX 782) - Credits: 16.00 Mechatronics 780 (MEG 780) - Credits: 16.00 Fossil fuel power stations 781 (MUU 781) - Credits: 16.00 Maintenance logistics 782 (MIP 782) - Credits: 16.00 Non-destructive testing 780 (MCT 780) - Credits: 16.00 Missile aerodynamics and design 781 (MLD 781) - Credits: 16.00 Experimental methods 782 (MLD 782) - Credits: 16.00 Unmanned aircraft systems technology 783 (MLD 783) - Credits: 16.00 Avionics 784 (MLD 784) - Credits: 16.00



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.