

University of Pretoria Yearbook 2021

BEngHons Electrical Engineering (12240032)

Department	Electrical, Electronic and Computer Engineering
Minimum duration of study	1 year
Total credits	128
NQF level	08

Programme information

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

- 1. BEng degree awarded by the University of Pretoria **or** equivalent degree **or** relevant four-year bachelor's degree in engineering that the Engineering Council of South Africa (ECSA) regards as acceptable for registration as a candidate engineer and for eventual registration as a professional engineer
- 2. An entrance examination may be required
- 3. Comprehensive intellectual CV

Other programme-specific information

Students may take modules to the value of 32 credits from other fields of specialisation or from other departments, with approval of the Coordinator: Postgraduate Studies.

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

EIN 732 is a compulsory module. With permission from the department it may be substituted with: EPT 732 OR EPT 733 EIN 732 is 'n verpligte module. Met toestemming van die departement mag dit vervang word met: EPT 732 OF EPT 733

Core modules

Optimal control 780 (EBO 780) - Credits: 32.00 Power electronics 780 (EED 780) - Credits: 32.00 Energy management 732 (EES 732) - Credits: 32.00 Power distribution engineering 732 (EEV 732) - Credits: 32.00 Renewable energy 732 (EGH 732) - Credits: 32.00 Introduction to research 732 (EIN 732) - Credits: 32.00 Multivariable control systems 732 (EMB 732) - Credits: 32.00 Energy optimisation 732 (ENO 732) - Credits: 32.00 Research project: Theory 732 (EPT 732) - Credits: 32.00 Research project: Design and laboratory 733 (EPT 733) - Credits: 32.00

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.