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# University of Pretoria Yearbook 2021

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## 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).



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## 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

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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.