University of Pretoria Yearbook 2020

BEngHons Electronic Engineering (12240092)

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

- A BEng degree awarded by the University of Pretoria (or equivalent); or a four-year bachelor's degree in engineering that ECSA regards as acceptable for registration as a candidate engineer and for eventual registration as a professional engineer.
- The departmental Postgraduate Committee reserves the right to make a thorough assessment of the applicant's academic transcript and CV, and to decide if the applicant is suitable for postgraduate studies. This assessment may include an oral or written entrance examination.

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

Intelligent systems 732 (EAI 732) - Credits: 32.00
Advanced topics in intelligent systems 733 (EAI 733) - Credits: 32.00
Biosignals and systems 732 (EBB 732) - Credits: 32.00
Bioelectricity and electronics 732 (EBE 732) - Credits: 32.00
Bioelectromagnetism and modelling 732 (EBI 732) - Credits: 32.00
Optimal control 780 (EBO 780) - Credits: 32.00
Energy management 732 (EES 732) - Credits: 32.00
Introduction to research 732 (EIN 732) - Credits: 32.00
Wireless sensor networks 732 (EKS 732) - Credits: 32.00
Electronic defence - electronic countermeasures 780 (ELB 780) - Credits: 32.00
Electronic defence - electronic support 781 (ELB 781) - Credits: 32.00
Antenna theory 780 (EMA 780) - Credits: 32.00
Multivariable control systems 732 (EMB 732) - Credits: 32.00
Analogue electronic design 732 (EME 732) - Credits: 32.00
Communication electronics 732 (EMK 732) - Credits: 32.00
Microwave theory 780 (EMM 780) - 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
Computer networks 780 (ERN 780) - Credits: 32.00
Digital communications 732 (ETD 732) - Credits: 32.00
Telecommunication systems engineering 732 (ETT 732) - 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.