



# University of Pretoria Yearbook 2024

## Electrical engineering design 320 (EWE 320)

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| <b>Qualification</b>          | Undergraduate  |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a>   |
| <b>Module credits</b>         | 16.00  |
| <b>NQF Level</b>              | 07   |
| <b>Programmes</b>             | <a href="#">BEng (Electrical Engineering) 4-year programme</a><br><a href="#">BEng (Electrical Engineering) 5-year programme</a> |
| <b>Prerequisites</b>          | EIR 211/221 GS, EMK 310 GS and admission into relevant programme.  |
| <b>Contact time</b>           | 1 tutorial per week, 18 hours practical per semester, 2 lectures per week  |
| <b>Language of tuition</b>    | Module is presented in English   |
| <b>Department</b>             | Electrical, Electronic and Computer Engineering  |
| <b>Period of presentation</b> | Semester 2   |

### Module content

In this module, students are required to generate a creative system design through synthesis and integration of components and subsystems. Students have to acquire technical knowledge through independent learning, and demonstrate a competency to work in a technical design team to realise and demonstrate a working product. This practical component is augmented by theoretical instruction in the fundamentals of system engineering, industry standards and practices, design for operational feasibility, power transformer design, power cable design, power capacitor design and protection system design.

### General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

### Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.



### **University of Pretoria Programme Qualification Mix (PQM) verification project**

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.