

University of Pretoria Yearbook 2022

Electrical engineering design 320 (EWE 320)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	07
Programmes	BEng (Electrical Engineering) BEng (Electrical Engineering) ENGAGE
Prerequisites	EIR 211/221 GS, EMK 310 GS
Contact time	1 tutorial per week, 2 lectures per week, 2 practicals per week
Language of tuition	Module is presented in English
Department	Electrical, Electronic and Computer Engineering
Period of presentation	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.

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