University of Pretoria Yearbook 2016

Energy optimisation 732 (ENO 732)

Qualification	Postgraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	32.00
Programmes	BEngHons Electrical Engineering
Prerequisites	No prerequisites.
Contact time	32 contact hours per semester
Language of tuition	English
Academic organisation	Electrical, Electronic and Com
Period of presentation	Semester 1

Module content

In this module, a brief introduction about energy systems, energy system modelling and optimisation, and Matlab applications in energy optimisation problems are given. Practical industrial (as well as residential) energy management problems such as the load shifting for geysers, conveyor belts and pumping systems in terms of time-of-use tariff and/or maximum demand charge are covered.