

University of Pretoria Yearbook 2016

Fossil fuel power stations 781 (MUU 781)

Qualification Postgraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 16.00

Programmes [BEngHons Mechanical Engineering](#)

[BScHons Applied Science Applied Science: Mechanics](#)

Prerequisites No prerequisites.

Contact time 13 lectures per week

Language of tuition English

Academic organisation Mechanical and Aeronautical En

Period of presentation Semester 2

Module content

This module contains a comprehensive study of all mechanical systems and processes of a fossil fuel power station. The module will include the analysis of steam cycles, combined cycle power generation, fuels and combustion, combustion mechanisms, combustion equipment and firing methods, the draught group, steam generators, steam turbines, condenser, feed water and circulating water systems, coal handling, ash handling, compressor plant, water treatment, the importance of HVAC, control and instrumentation, control philosophies and environmental considerations.

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