



# University of Pretoria Yearbook 2021

## Fossil fuel power stations 781 (MUU 781)

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|-------------------------------|---|
| <b>Qualification</b>          | Postgraduate  |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a>  |
| <b>Module credits</b>         | 16.00   |
| <b>NQF Level</b>              | 08  |
| <b>Programmes</b>             | <a href="#">BEngHons Mechanical Engineering</a><br><a href="#">BScHons Applied Science Mechanics</a><br><a href="#">BScHons Applied Science Mechanics Physical Asset Management</a> |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 13 lectures per week  |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Mechanical and Aeronautical Engineering   |
| <b>Period of presentation</b> | 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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