

# University of Pretoria Yearbook 2020

## Reactor engineering science 783 (MUA 783)

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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>Programmes</b>             | <a href="#">BEngHons Mechanical Engineering</a><br><a href="#">BSchHons Applied Science Mechanics</a> |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 21 contact hours per semester   |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Mechanical and Aeronautical Engineering   |
| <b>Period of presentation</b> | Semester 1  |

### Module content

Atomic structure, nuclear energy and nuclear forces, nuclear fission, nuclear reactions and radiation, energy removal, nuclear reactor systems, radiation protection, radiation shielding, meteorology, reactor safety analysis.

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