

Advance your skills

Power Plant Engineering

Postgraduate Diploma



What will I gain

A qualification which will develop high level specialist skills required to deal with specific challenges faced by those working in, or entering, the power plant industry.

How will I learn these skills?

Courses are taught in block sessions to cater for working individuals. The content for the course is taught partly online and partly through face-to-face interaction. Candidates will be required to attend 1 week of lectures for each course taken.

PROGRAMME STRUCTURE

To qualify for the diploma, candidates are required to complete a minimum of 120 credits and a total of 8 courses of which 6 are compulsory courses.

Candidates have the option to select 2 elective courses from any of the specialisation centres of the Consortium Partner Universities. Unless otherwise stipulated, the courses are offered at the University of Cape Town.

All courses can be taken for CPD points.

Minimum qualifications needed

BSc/BScEng/BTech in a science related field with undergraduate courses in thermodynamics and a minimum final year mark of 60%.

COMPULSORY COURSES

- Overview of the Power Plant Industry
- Power Plant Systems Analysis
- Power Plant Boilers
- Systems Engineering
- Mechanical Behaviour of Materials
- Leadership in a Technical Environment

ELECTIVE COURSES

- | | |
|-----------------------------|------------------------------|
| Turbine Plant Engineering | Reliability Engineering |
| Vibrations | Renewable Energy Systems |
| Intelligent Systems | Renewable Energy Policy |
| Condition-based Maintenance | Thermal Energy Systems |
| Control Systems | Introduction to Solar Energy |
| Maintenance Logistics | Nuclear Reactor Technology |
| Maintenance Practice | Nuclear Engineering I |
| | Reactor Safety |

For more information please visit:
www.mecheng.uct.ac.za



UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD

Department of Mechanical Engineering