

# University of Pretoria Yearbook 2019

## Advanced topics of energy research 732 (ERT 732)

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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>         | 32.00  |
| <b>Prerequisites</b>          | No prerequisites.  |
| <b>Contact time</b>           | 32 contact hours per semester  |
| <b>Language of tuition</b>    | Module is presented in English   |
| <b>Department</b>             | Electrical, Electronic and Computer Engineering                                      |
| <b>Period of presentation</b> | Semester 1 or Semester 2   |

### Module content

The module focuses on the research training on supply side, energy transmission, and demand side. Some related research papers and our finished projects will be taught. Energy optimisation techniques will be trained throughout the module. The teaching material also includes some of our newest research projects so that students are getting involved in most advanced research progresses. The expected learning outcomes are: (i) ability to identify if a problem is important to be investigated; (ii) ability to search references for research problems; (iii) ability to use energy management tools to model a research problem; (iv) ability to identify suitable optimization algorithms for an optimization problem arising from an energy management mathematical model; (v) ability to write research reports.

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