

# University of Pretoria Yearbook 2019

## Large-scale computing systems and scientific computing 805 (NEP 805)

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| <b>Qualification</b>          | Postgraduate   |
| <b>Faculty</b>                | <a href="#">Faculty of Natural and Agricultural Sciences</a> |
| <b>Module credits</b>         | 15.00  |
| <b>Programmes</b>             | <a href="#">MSc eScience (Coursework)</a>                    |
| <b>Prerequisites</b>          | No prerequisites.  |
| <b>Language of tuition</b>    | Module is presented in English                               |
| <b>Department</b>             | Statistics   |
| <b>Period of presentation</b> | Semester 1 or Semester 2                                     |

### Module content

Introduction to scientific computing architectures in Python, introduction to distributed systems, introduction to distributed databases, introduction to parallelism, large-data computation and storage models, introduction to well-known distributed systems architectures, and programming large-data applications on open-source infrastructures for data processing and storage systems.

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