

University of Pretoria Yearbook 2017

Cyber analytics 802 (WST 802)

Qualification Postgraduate

Faculty [Faculty of Health Sciences](#)

Module credits 20.00

Programmes [MSc Mathematical Statistics \(Coursework\)](#)

Contact time 1 lecture per week

Language of tuition Module is presented in English

Academic organisation Statistics

Period of presentation Semester 1 or Semester 2

Module content

Reviewing, from a statistical perspective, the cyberinfrastructure ecosystem including distributed computing, multi node and distributed file eco systems. Structured and unstructured data sources, including social media data and image data. Setting up of large data structures for analysis. Algorithms and techniques for computing statistics and statistical models on distributed data. Software to be used include, Hadoop, Map reduce, SAS, SAS Data loader for Hadoop.

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