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# University of Pretoria Yearbook 2021

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## Cyber analytics 802 (WST 802)

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| <b>Qualification</b>          | Postgraduate  |
| <b>Faculty</b>                | <a href="#">Faculty of Economic and Management Sciences</a>   |
| <b>Module credits</b>         | 20.00   |
| <b>NQF Level</b>              | 09  |
| <b>Programmes</b>             | <a href="#">MCom Advanced Data Analytics (Coursework)</a><br><a href="#">MSc Advanced Data Analytics (Coursework)</a> |
| <b>Service modules</b>        | Faculty of Natural and Agricultural Sciences  |
| <b>Contact time</b>           | 1 lecture per week  |
| <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

Reviewing, from a statistical perspective, the cyber-infrastructure ecosystem including distributed computing, multi node and distributed file eco systems, such as Amazon Web Services. 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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