

# University of Pretoria Yearbook 2021

## Big data 805 (MIT 805)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Programmes</b>	<a href="#">MIT Big Data Science (Coursework)</a>
<b>Prerequisites</b>	First year level higher education modules in Computer Science.
<b>Contact time</b>	10 contact hours
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Information Technology
<b>Period of presentation</b>	Semester 2

### Module content

This module focuses on tools for Big Data processing. The focus is on the 3 V- characteristics of Big Data namely volume, velocity and variety. Students will learn about the different architectures available for Big Data processing. The map-reduce algorithm will be studied in detail as well as graphical models for Big Data. The module will include a significant component of practical work (hands-on) where students will be exposed to real use cases that are or can be implemented on Big Data platforms.

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