University of Pretoria Yearbook 2022

Big data 805 (MIT 805)

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