

University of Pretoria Yearbook 2017

Parallel and distributed computing 786 (COS 786)

Qualification Postgraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 15.00

Programmes [BIT Information Technology](#)

[BScHons Computer Science](#)

Prerequisites No prerequisites.

Contact time 2 lectures per week

Language of tuition Module is presented in English

Academic organisation Computer Science

Period of presentation Semester 1 or Semester 2

Module content

Computational science relies on the analysis of often complex models, for its empirical data and analyses typically involve an enormous amount of calculations. Parallel computing is one means of reducing the time needed to complete such calculations. This module will examine the kinds of problems that lend themselves to parallel computation and the methods for implementing programs to solve such problems. The aim of the module is to provide a background for parallel and distributed computing as well as practical knowledge of the implementation of computational experiments.

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