

# University of Pretoria Yearbook 2022

## Operating systems 122 (COS 122)

**Qualification** Undergraduate

**Faculty** Faculty of Engineering, Built Environment and Information Technology

**Module credits** 16.00

**NQF Level** 05

**Programmes** BCom (Statistics and Data Science)

BEng (Computer Engineering)

BEng (Computer Engineering) ENGAGE

BIS (Multimedia)

BSc (Computer Science)

BSc (Information and Knowledge Systems)

BSc (Mathematical Statistics)

BSc (Physics)

**Prerequisites** COS 132

**Contact time** 1 practical per week, 1 tutorial per week, 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Computer Science

**Period of presentation** Semester 2

### Module content

Fundamental concepts of modern operating systems in terms of their structure and the mechanisms they use are studied in this module. After completing this module, students will have gained, as outcomes, knowledge of real time, multimedia and multiple processor systems, as these will be defined and analysed. In addition, students will have gained knowledge on modern design issues of process management, deadlock and concurrency control, memory management, input/output management, file systems and operating system security. In order to experience a hands-on approach to the knowledge students would have gained from studying the abovementioned concepts, students will have produced a number of practical implementations of these concepts using the Windows and Linux operating systems.

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