



University of Pretoria Yearbook 2020

Operating systems 122 (COS 122)

Qualification Undergraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 16.00

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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