

University of Pretoria Yearbook 2016

Operating systems 222 (COS 222)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
Programmes	BEng Computer Engineering BEng Computer Engineering Engage BIS Multimedia BIT Information Technology BSc Information Technology Information and Knowledge Systems BSc(Computer Science) Computer Science
Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	COS 153 or COS 131 or COS 132
Contact time	1 practical per week
Language of tuition	Both Afr and Eng
Academic organisation	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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