

University of Pretoria Yearbook 2022

Computer engineering: Architecture and systems 410 (EAS 410)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	08
Programmes	BEng (Computer Engineering) BEng (Computer Engineering) ENGAGE
Prerequisites	EMK 310 GS
Contact time	1 practical per week, 1 tutorial per week, 3 lectures per week
Language of tuition	Module is presented in English
Department	Electrical, Electronic and Computer Engineering
Period of presentation	Semester 1

Module content

The module covers advanced topics in computer architecture and systems, in particular, multiprocessors, parallelisms, performance measurement of computer systems, scheduling, data routing mechanisms, efficiency, and hierarchical memory technology. In addition, quality of parallelism, system efficiency, speedup, and linear and non-linear pipelines technologies are investigated to gain deeper insight into the computer system architecture.

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