

University of Pretoria Yearbook 2016

Computer networks 332 (COS 332)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	18.00
Programmes	BIS Multimedia BIT Information Technology BSc Information Technology Information and Knowledge Systems BSc(Computer Science) Computer Science
Prerequisites	COS 216
Contact time	2 lectures per week, 1 practical per week
Language of tuition	English
Academic organisation	Computer Science
Period of presentation	Semester 1

Module content

The objective of this module is to acquaint the student with the terminology of communication systems and to establish a thorough understanding of exactly how data is transferred in such communication networks, as well as applications that can be found in such environments. The study material includes: concepts and terminology, the hierarchy of protocols according to the OSI and TCP/IP models, protocols on the data level, physical level and network level as well as higher level protocols. The practical component of the module involves programming TCP/IP sockets using a high level language. The emphasis throughout is on the technical aspects underlying the operation of networks, rather than the application of networks.

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