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# University of Pretoria Yearbook 2021

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## Computer networks 332 (COS 332)

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| <b>Qualification</b>          | Undergraduate   |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a>  |
| <b>Module credits</b>         | 18.00   |
| <b>NQF Level</b>              | 07  |
| <b>Programmes</b>             | <a href="#">BIS Multimedia</a><br><a href="#">BSc Computer Science</a><br><a href="#">BSc Information and Knowledge Systems</a> |
| <b>Prerequisites</b>          | COS 216   |
| <b>Contact time</b>           | 1 practical per week, 2 lectures per week   |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Computer Science  |
| <b>Period of presentation</b> | 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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