



University of Pretoria Yearbook 2022

Introduction to computer science 151 (COS 151)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	8.00
NQF Level	05
Programmes	BIS (Multimedia) BSc (Computer Science) BSc (Information and Knowledge Systems) BSc (Applied Mathematics) BSc (Mathematical Statistics) BSc (Mathematics) BSc (Physics)
Service modules	Faculty of Education Faculty of Natural and Agricultural Sciences
Prerequisites	APS of 30 and level 5 (60-69%) Mathematics.
Contact time	1 practical per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Computer Science
Period of presentation	Semester 1

Module content

This module introduces concepts and terminology related to the computer science discipline. General topics covered include the history of computing, machine level representation of data, Boolean logic and gates, basic computer systems organisation, algorithms and complexity and automata theory. The module also introduces some of the subdisciplines of computer science, such as computer networks, database systems, compilers, information security and intelligent systems. The module also focuses on modelling of algorithms.

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