

University of Pretoria Yearbook 2017

Imperative programming 132 (COS 132)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
Programmes	<p>BCom Statistics</p> <p>BEng Computer Engineering</p> <p>BEng Computer Engineering ENGAGE</p> <p>BEng Electrical Engineering</p> <p>BEng Electrical Engineering ENGAGE</p> <p>BEng Electronic Engineering</p> <p>BEng Electronic Engineering ENGAGE</p> <p>BIS Multimedia</p> <p>BIT Information Technology</p> <p>BSc Computer Science</p> <p>BSc Information and Knowledge Systems</p> <p>BSc Actuarial and Financial Mathematics</p> <p>BSc Mathematical Statistics</p> <p>BSc Mathematics</p>
Service modules	<p>Faculty of Economic and Management Sciences</p> <p>Faculty of Natural and Agricultural Sciences</p>
Prerequisites	APS of 30 and level 5 (60-69%) Mathematics
Contact time	1 tutorial per week, 1 practical per week, 3 lectures per week
Language of tuition	Separate classes for Afrikaans and English
Academic organisation	Computer Science
Period of presentation	Semester 1

Module content

This module introduces imperative computer programming, which is a fundamental building block of computer science. The process of constructing a program for solving a given problem, of editing it, compiling (both manually and automatically), running and debugging it, is covered from the beginning. The aim is to master the elements of a programming language and be able to put them together in order to construct programs using types, control structures, arrays, functions and libraries. An introduction to object orientation will be given. After completing this module, the student should understand the fundamental elements of a program, the importance of good program design and user-friendly interfaces. Students should be able to conduct basic program analysis and write complete elementary programs.

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