

# University of Pretoria Yearbook 2016

## Imperative programming 132 (COS 132)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Module credits</b>	16.00
<b>Programmes</b>	<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 Information Technology Information and Knowledge Systems</p> <p>BSc(Computer Science) Computer Science</p> <p>BSc Actuarial and Financial Mathematics</p> <p>BSc Mathematical Statistics</p> <p>BSc Mathematics</p> <p>BSc Physics</p>
<b>Service modules</b>	<p>Faculty of Economic and Management Sciences</p> <p>Faculty of Natural and Agricultural Sciences</p>
<b>Prerequisites</b>	APS of 30 and level 5 (60-69%) Mathematics
<b>Contact time</b>	1 tutorial per week, 1 practical per week, 3 lectures per week
<b>Language of tuition</b>	Both Afr and Eng
<b>Academic organisation</b>	Computer Science
<b>Period of presentation</b>	Semester 1

## Module content

\*Note: All students registered for degrees within the School of IT, excluding the two four year programmes, BIS (Information Science) and BIS (Publishing), need to enrol for this module.

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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