Program design: Introduction 110 (COS 110)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	05
Programmes	BEng (Computer Engineering)
	BEng (Computer Engineering) ENGAGE
	BIS (Multimedia)
	BSc (Computer Science)
	BSc (Information and Knowledge Systems)
	BSc (Applied Mathematics)
	BSc (Mathematics)
	BSc (Physics)
	BSc extended programme - Mathematical Sciences
Service modules	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Economic and Management Sciences
	Faculty of Natural and Agricultural Sciences
Prerequisites	COS 132 , COS 151 and Maths level 5
Contact time	1 practical per week, 1 tutorial per week, 3 lectures per week
Language of tuition	Module is presented in English
Department	Computer Science
Period of presentation	Semester 2

Module content

The focus is on object-oriented (OO) programming. Concepts including inheritance and multiple inheritance, polymorphism, operator overloading, memory management (static and dynamic binding), interfaces, encapsulation, reuse, etc. will be covered in the module. The module teaches sound program design with the emphasis on modular code, leading to well structured, robust and documented programs. A modern OO programming language is used as the vehicle to develop these skills. The module will introduce the student to basic data structures, lists, stacks and queues.

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

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