

University of Pretoria Yearbook 2016

Software modelling 121 (COS 121)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 16.00

Programmes [BIS Multimedia](#)

[BIT Information Technology](#)

[BSc Information Technology Information and Knowledge Systems](#)

[BSc\(Computer Science\) Computer Science](#)

Prerequisites COS 153 or COS 131 or COS 132

Contact time 1 tutorial per week

Language of tuition Both Afr and Eng

Academic organisation Computer Science

Period of presentation Semester 2

Module content

The module will introduce the concepts of model-driven analysis and design as a mechanism to develop and evaluate complex software systems. Systems will be decomposed into known entities, such as design patterns, classes, relationships, execution loops and process flow, in order to model the semantic aspects of the system in terms of structure and behaviour. An appropriate tool will be used to support the software modelling. The role of the software model in the enterprise will be highlighted. Students who successfully complete this module will be able to conceptualise and analyse problems and abstract a solution.

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