

University of Pretoria Yearbook 2019

Software modelling 214 (COS 214)

| | |
|-------------------------------|--|
| Qualification | Undergraduate |
| Faculty | Faculty of Engineering, Built Environment and Information Technology |
| Module credits | 16.00 |
| Programmes | BIS Multimedia BIT BSc Computer Science BSc Information and Knowledge Systems |
| Prerequisites | COS 212 |
| Contact time | 4 lectures per week, 1 practical per week |
| Language of tuition | Module is presented in English |
| Department | 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.

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.