

University of Pretoria Yearbook 2020

Generic programming 482 (COS 482)

Qualification Undergraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 15.00

Prerequisites COS 301 and at least two COS modules at third-year level.

Contact time 2 lectures per week

Language of tuition Module is presented in English

Department Computer Science

Period of presentation Semester 1 or Semester 2

Module content

This module introduces the concepts of generic programming in order to generate code at compile-time. Of particular interest is the automatic generation of design pattern implementations at compile-time for use at runtime. To this end, design patterns and compile-time programming techniques such as: basic compile-time programming constructs, object allocation, generalised functors, smart pointer and multi-methods are discussed in detail and applied to design patterns.

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