

University of Pretoria Yearbook 2017

Detailed design 420 (SDO 420)

Qualification Undergraduate

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

Module credits 24.00

Programmes [BEng Civil Engineering](#)
[BEng Civil Engineering ENGAGE](#)

Prerequisites (SHC 410), (SIN 411), (SIN 413), (SGM 323), (SVC 412)

Contact time 5 lectures per week, 1 tutorial per week, 1 practical per week

Language of tuition Separate classes for Afrikaans and English

Academic organisation Civil Eng

Period of presentation Semester 2

Module content

The module focuses on design applications. The student is exposed to the application of the classic disciplines of structures, geotechnical, hydraulics and transportation in detail design. Supervisors select the most valuable application in each discipline. Typical examples include the following:

- Structures: Multi storey buildings with reinforced concrete frames and slabs
- Hydraulics: Pump lines and stations
- Geotechnical: Slimes dams
- Transportation: Traffic impact studies, pavement design and analysis

The applications selected for each discipline may vary from year to year.

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.