

University of Pretoria Yearbook 2020

Geotechnical engineering 323 (SGM 323)

Qualification Undergraduate

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

Module credits 16.00

Programmes [BEng Civil Engineering](#)

[BEng Civil Engineering ENGAGE](#)

[BSc Engineering and Environmental Geology](#)

Prerequisites (SGM 311)

Contact time 1 practical per week, 2 discussion classes per week, 3 lectures per week

Language of tuition Separate classes for Afrikaans and English

Department Civil Engineering

Period of presentation Semester 2

Module content

Application of consolidation theory. Bearing capacity of soil and foundation design, Terzaghi and general methods. Horizontal stresses in soil and design of retaining structures, Rankine and Couloumb's methods. Slope stability including Bishop's method of slices. Introduction to site investigation.

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