

University of Pretoria Yearbook 2016

Analytical soil mechanics 787 (SGS 787)

Qualification Postgraduate

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

Module credits 24.00

Programmes [BEngHons Geotechnical Engineering](#)

[BScHons Applied Science Applied Science: Geotechnics](#)

Prerequisites No prerequisites.

Contact time 20 Contact hours

Language of tuition English

Academic organisation Civil Eng

Period of presentation Year

Module content

A research term paper will be prepared.

Solution of confined and unconfined seepage problems using the methods of fragments, finite differences and finite elements. Numerical solutions of consolidation problems and secondary compression. Slope stability analysis methods. The point estimate method. Monte Carlo simulation.

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