

University of Pretoria Yearbook 2020

Specialised geotechnical testing 789 (SGS 789)

Qualification Postgraduate

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

Module credits 24.00

Programmes [BEngHons Geotechnical Engineering](#)
[BSchHons Applied Science Geotechnics](#)

Prerequisites No prerequisites.

Contact time 32 Contact hours

Language of tuition Module is presented in English

Department Civil Engineering

Period of presentation Year

Module content

A research term paper will be prepared.

Test procedures and interpretation of; Standard Penetration Test (SPT), Cone Penetration Test (CPT), Piezocone (CPTU) and seismic methods. Theory, application and interpretation of advanced geotechnical laboratory tests. Laboratory Instrumentation and calibration. Stress and strain conditions for laboratory tests. Triaxial stress space, stress paths. Triaxial tests, direct shear tests, oedometer test and Rowe cell test.

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