

# University of Pretoria Yearbook 2021

## Specialised geotechnical testing 789 (SGS 789)

**Qualification** Postgraduate

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

**Module credits** 24.00

**NQF Level** 08

**Programmes** [BEngHons Geotechnical Engineering](#)

[BScHons 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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