

## University of Pretoria Yearbook 2021

## Theoretical soil mechanics 788 (SGS 788)

**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** 20 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.

Introduction to critical state soil mechanics. Stress and strain invariants. Stress paths. State boundary surfaces including Roscoe and Hvorslev surfaces. Cam clay model. Application of geotechnical constitutive models in finite element analysis.

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