

University of Pretoria Yearbook 2017

Environmental geotechnology 421 (SEV 421)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
Programmes	BEng Civil Engineering BEng Civil Engineering ENGAGE
Prerequisites	No prerequisites.
Contact time	1 practical per week, 1 tutorial per week, 4 lectures per week
Language of tuition	Separate classes for Afrikaans and English
Academic organisation	Civil Eng
Period of presentation	Semester 2

Module content

Regulatory framework, site investigation, site restoration, and waste disposal. Site characterization methods. Waste types and properties. Subsurface contaminant transport. Multiphase fluid flow. Design of waste containment and waste disposal systems. Review of remedial alternatives with emphasis on in situ technologies. Case histories. Integrated environmental management processes. Environmental legislation in South Africa. Environmental impact, environmental auditing and risk analysis. ISO 140000: what it entails and how it is applied. Community participation.

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