

Graduate Certificate in Geotechnical Engineering

The programme is ideal for fresh graduates and professionals seeking to enhance their expertise in geotechnical engineering. It offers comprehensive knowledge in soil mechanics, foundation engineering, slope stability, and ground improvement techniques. Graduates will be equipped to tackle complex geotechnical challenges, boosting career prospects in civil engineering, construction, and infrastructure development across public and private sectors.

[MORE INFO](#)

Why choose us?

- ✓ Ranked 3rd in Civil and Structural Engineering (QS World University Rankings)
- ✓ Alternative pathway to Master of Science in Civil Engineering:
Complete 12 units with a GPA of 3.0 or higher to qualify for admission



Admission Requirement

Eligibility

Individual with Bachelor's degree with relevant professional experience

Application Period

- January Intake:
Starts in October / November
- August Intake:
Starts in April / May

Graduation Requirement

Complete 12 units of courses with a minimum GPA of 2.5



Programme Details

Mode of Instruction

Part-time basis, featuring weekly face-to-face lectures

Candidature Period

Maximum 2 years

Programme Fee

SGD 1,450 per-unit of course
(excluding 9% GST)



Programme Structure

List of Courses

- **CE5104A** - Tunneling in Soil
- **CE5104B** - Tunneling in Rock
- **CE5106A** - Ground Improvement: Hydraulic, Vibratory & Chemical
- **CE5106B** - Ground Improvement: Dynamic, Geosynthetic & Inclusions
- **CE5107A** - Pile Foundation Design
- **CE5107B** - Advanced Topics in Pile Foundation Design
- **CE5108A** - Key Principles and Concepts of Earth Retention Systems
- **CE5108B** - Deep Excavations Analysis and Modelling
- **CE5113A** - Geotechnical Site Investigation
- **CE5113B** - Geophysical Methods & Geotechnical Monitoring