

Graduate Certificate in Geotechnical Engineering

Graduate certificate programme in Geotechnical Engineering offers fresh civil engineering graduates and practicing engineers the opportunity to enhance and upgrade their knowledge in key geotechnical disciplines. The state-of-the-art geotechnical engineering topics covered in the well-designed courses will provide students with combined analytical abilities and practical skillsets imperative to tackle a wide spectrum of geotechnical problems from site investigations, ground improvements, foundation designs, tunnelling and deep excavations.



Eligibility

Applications are open to individuals with a Bachelor's degree with relevant professional experience.

Application Period

For August intake, application starts in April.
For January intake, application starts in October.

Candidature Period

Maximum 2 years

Award of Certificate

Upon completion of 12 units with a Grade Point Average (GPA) of at least 2.50 out of 5.00.

Pathway to MSc

Upon completion of Graduate Certificate programme, graduates with GPA ≥ 3.00 may apply for a relevant MSc programme, subject to approval by host Department. Courses are transferable to MSc, subject to terms and conditions.

COURSES

Each course carries 2 units.

To complete 12 units.

CE5104A	Tunnelling in Soils
CE5104B	Tunnelling in Rocks
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

For more details, visit:

<https://cde.nus.edu.sg/cee/graduate/graduate-certificate-programmes/gc-ge/>

