

Graduate Certificate in Structural Engineering

The programme is designed for fresh graduates and industry professionals seeking advanced knowledge in sustainable design, structural analysis, and innovative construction technologies. It provides a comprehensive training experience, equipping participants to meet the increasing demands for resilient and sustainable infrastructure. Graduates will acquire essential skills to tackle emerging challenges, positioning themselves for pivotal roles in civil engineering, urban development, and large-scale construction projects.

[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

- **CE5010A** - Finite Element Concepts & Applications
- **CE5010B** - Finite Element Analysis for Civil Engineering
- **CE5509A** - Advanced Structural Steel Design
- **CE5509B** - Design of Composite Steel and Concrete Structures
- **CE5510A** - Advanced Structural Concrete Design
- **CE5510B** - Rational Design of Structural Concrete Systems
- **CE5516A** - Structural Stability Concepts & Applications
- **CE5516B** - Structural Dynamics Concepts & Applications
- **CE5610A** - Special Types of Concrete and Cementitious Material
- **CE5610B** - Concrete Repair & Retrofitting of Structural Concrete
- **CE5611A** - Advanced Prestressed Concrete Design
- **CE5611B** - Precast Structural Concrete Design
- **CE6077A** - Numerical Methods in Civil Engineering