Coursework Programmes

- Civil Engineering
- Maritime Studies
- International Construction Management

Research Programmes
- Doctor of Philosophy
- Master of Engineering

Coursework Programmes
- Master of Science in
  - Civil Engineering
  - Maritime Studies
  - International Construction Management
The School of Civil and Environmental Engineering (CEE) trains and educates professional engineers to solve multi-faceted problems that affect our daily lives and our planet. Our programmes are complemented by state-of-the-art facilities, providing a highly advanced environment for research, development and collaborations with the industry and overseas universities. The School offers graduate programmes leading to the award of Master’s Degrees or Doctor of Philosophy.

With an internationally renowned faculty, CEE offers engineering consultancy and short courses, and organizes conferences and seminars for the benefit of the industry.

The school is staffed by an international faculty of academics with professional experience. Besides taking on a role in the education sector, they are actively involved in research collaborations with industrial organization, offering engineering consultancy and conferences to share their expertise.

Many of our professors have also been appointed to the editorial board of leading and prestigious engineering journals and garnered prestigious award in recognition of their achievements in their field of research.
Students can choose to pursue a Doctor of Philosophy (PhD) or Master of Engineering (MEng) degree in one of the following disciplines:

(Please spend some time to study through the Web Pages of the School faculty located on CEE website: (www.cee.ntu.edu.sg) and identify faculty whose research area may align with your research interest. The potential faculty will be able to tell you more about their research and see if you might be a good match.)

**Construction Technology and Management**
- Construction Technology and Management
- Risk and Project Financing
- Facility and Infrastructure Management

**Maritime Studies**
- Maritime Logistics
- Port Economics and Management
- Maritime Strategy and Risk Management
- Strategic and Quality Management in Shipping Supply Chain Management

**Environmental and Water Resources**
- Membrane Technology in Environmental Engineering
- Water Reclamation Technologies
- Waste Reuse and Resource Recovery
- Environmental Biotechnology
- Integrated Urban Water Management
- Environmental Fluid Mechanics
- Sediment Transport
- Coastal Management

**Structures and Mechanics**
- Computational Mechanics
- Earthquake Engineering and Structural Dynamics
- Protective Technology
- Fire Engineering
- Concrete and Steel Technology

**Geotechnical Engineering**
- Foundations of High-Rise Buildings
- Land Reclamation
- Underground Space Development
- Tropical Soil Engineering
- Rock Mechanics and Engineering Geology

**Transportation Engineering**
- Transport Modeling and Traffic Management
- Transport Planning
- Congestion Pricing
- Road Safety Engineering

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**INTAKE**

**August**
(application period: 1 October – 31 January)

**January**
(application period: 1 June – 31 July)
Doctor of Philosophy

Admission Requirements
• At least Second Class (Upper) Honours Bachelor’s degree or its equivalent as well as the ability to pursue research in his proposed field of advanced study.
• A good GRE score is required for international applicants. Applicants from India may use the GATE score in place of GRE.
• Good TOEFL/IELTS score* (for applicants whose native language is not English).

*Test dates must be within 2 years or less from the date of your application

Candidature Period
• Full Time: 2-5 years
• Part Time: 2-7 years

Research Scholarships
NTU offers a number of Scholarships to new PhD students pursuing full-time postgraduate studies:
• Nanyang President’s Graduate Scholarship
• NTU Research Scholarship
• A*STAR Graduate Scholarship

More application details can be found via http://admissions.ntu.edu.sg

Programme Structure

Coursework
• 18 AUs (6 courses) with CGPA 3.5
• Graduate English (HWG703)* & University Teaching for Teaching Assistants (HWG702)*

*compulsory for full time students only

Research
• PhD qualifying examination & confirmation by end of year 2
• Complete submission of thesis for examination
• Final oral examination

Career Outlook
A PhD graduate has a big advantage if you are applying for a job which requires specific expertise. You will get more interesting and challenging tasks to perform. Your job options in academic or industry are:

• College Professor
• Managerial Position
• Research Scientist
• Consultant
Master of Engineering

Admission Requirements

• At least Second Class (Upper) Honours Bachelor’s degree or its equivalent as well as the ability to pursue research in his proposed field of advanced study.
• A good GRE score is required for international applicants. Applicants from India may use the GATE score in place of GRE.
• Good TOEFL/IELTS score* (for applicants whose native language is not English).

*Test dates must be within 2 years or less from the date of your application

Candidature Period

• Full Time: 1-3 years
• Part Time: 1-4 years

Programme Structure

Coursework

• 9 AUs (3 courses) with CGPA 3

Research

• Confirmation by end of year 1
• Complete submission thesis for examination

Career Outlook

Graduates of a Master of Engineering can enter into research, development or advanced positions within the field. Possible jobs for graduates also include:

• Consultant
• Design Engineer
• Managerial Position
• Researcher
Programme Overview

The Master of Science in Civil Engineering programme in NTU is intended to equip students with the latest advancements in knowledge and technology in modern civil engineering practice. Each student will have the opportunity to acquire knowledge in several civil engineering disciplines by selecting appropriate subject.

The programme leading to the degree of Master of Science in Civil Engineering comprises coursework with or without a M.Sc. dissertation. In general, a candidate will take subjects from several disciplines within civil engineering and graduate with a fairly broad knowledge.

Admission Requirements

- At least second class (lower) Honours Bachelor’s degree in Engineering or equivalent or related discipline and must be a graduate of this University or such graduate of another university as the Academic Board may approve.
- Preferably, have a minimum of 2 years of relevant working experience after obtaining their first degree.
- Good TOEFL/IELTS score* (for applicants whose native language is not English).

*Candidates must be within 2 years or less from the date of your application

Candidature Period

- Full Time: 1-3 years
- Part Time: 2-4 years

Programme Structure

- 30 AUs (10 courses)
- 15 out of 30 AUs must be in Civil Engineering courses
- Options for Specialization in Geotechnical or Structural Engineering (only available for part-time)
- Option for Dissertation (eligible students may apply in lieu of 2 courses)

Career Outlook

Civil Engineering as a profession is a very diverse profession and offers a wide range of activities across a variety of disciplines. The graduates can seek advancement and challenges in public or private sectors in the following areas:

- Structural/Geotechnical Engineering
- Transportation Engineering
- Project Management
- Management Position

INTAKE

August
(application period
November – January)
Programme Overview
This programme is developed to fill the gap and provide post-graduate level and high-value education for professionals in maritime and related business; elevating them from local business management to one of the international and global business settings.

The foremost intention is to provide young graduates and middle-management executives working in maritime related areas an avenue for higher education. The programme will also be suitable for graduates who wish to be involved in the maritime profession. The education would provide them with necessary knowledge and tools to form the next generation of shipping executives.

This programme is conducted jointly by NTU and the Norwegian Business School (BI) and leads to the award of the MSc (Maritime Studies) degree by NTU which has been presented the Excellence in Training Development award at the Singapore International Maritime Awards (IMA) 2009. NTU is honoured in recognition for its outstanding contribution to Singapore's maritime education landscape.

Admission Requirements
• A good Honours degree in shipping, business or equivalent or related discipline.
• With COC1 recognized by the Maritime and Port Authority of Singapore are also eligible to apply.
• Preferably, have a minimum of 2 years of relevant working experience after obtaining their first degree.
• Good TOEFL/IELTS score* (for applicants whose native language is not English).

*Candidate Period
• Full Time: 1-3 years
• Part Time: 2-4 years

Programme Structure
• 30 AUs (10 courses)
• 18 (12 AUs compulsory + 6 AUs electives) out of 30 AUs must be from the core topics of Maritime Studies programme
• Option for Dissertation (eligible students may apply in lieu of 2 courses)

Career Outlook
The maritime industry in Singapore is growing and short of trained and experienced professionals. The graduates can seek advancement and challenges in the following areas:
• Shipping Management
• Logistic and Supply Chain
• Ship Finance, Chattering and Brokering
• Government Agencies in port and maritime
• Maritime research and development

INTAKE
August
(application period November – February)
Master of Science (International Construction Management)

Non-Subsidised Programme

Programme Overview
The programme enables graduate engineers, architects and other related professionals to expand their decision-making horizons giving due consideration to the kind of parameters and risks which international construction managers encounter regularly.

Its main objective is to develop competent and well-rounded construction managers who have the skills to source, secure and effectively manage projects in the domestic and international construction market.

Admission Requirements
• A good Honours degree in Engineering, Building/Estate Management, Quantity Surveying or other related disciplines.
• Preferably, have a minimum of 2 years of relevant working experience after obtaining their first degree.
• Good TOEFL/IELTS score* (for applicants whose native language is not English).

*Test dates must be within 2 years or less from the date of your application

Candidature Period
• Full Time: 1-3 years
• Part Time: 2-4 years

Programme Structure
• 30 AUs (10 courses)
• 18 out of 30 AUs must be from International Construction Management programme
• Option for Dissertation (eligible students may apply in lieu of 2 courses)

Career Outlook
The graduates can seek advancement and challenges in industries or government in the following areas:
• Management Position
• Project Management
• Real Estate Management

INTAKE

August
(application period
November – February)
I feel that CEE PhD program is a great opportunity for young professionals to learn, explore and develop. It is an exciting journey in which you would encounter unexpected findings and outcomes.

Starting with a passionate curiosity is the best way to find the right focus. While inspiring innovative ideas may like butterflies, pretty to see, but hard to catch. Put them into practice can help you towards successful career. During the tough times, do not hesitate to talk and interact with your supervisors, colleagues and researchers from different disciplines, these valuable discussions can broaden your vision and help you get through.

Fun, Fulfilling and Fast-paced. That sums up my two-year part-time studies in the Maritime Studies course at NTU. It was tough being back in school after many years whilst taking evening and weekend classes meant that family and social time had to be sacrificed.

However I was blessed to be surrounded by fun-loving and supportive classmates, many of whom I have learnt a lot from. The professors were also experienced and modules rigorously structured, strengthening my knowledge about maritime sector. Definitely a course for those who are keen for greater exposure and knowledge!
CONTACTS

For enquiries, please contact:

**CEE Graduate Studies Unit**

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Singapore 639798

**PhD & MEng Programmes by Research**

Telephone: (65) 6790 5322  
E-mail: ceePhD_MEng@ntu.edu.sg

**MSc Programmes by Coursework**

Telephone: (65) 6790 5828  
E-mail: ceeMScprog@ntu.edu.sg

**Our Website:**

http://www.cee.ntu.edu.sg/Programmes/graduate

**Online Application only:**

Research:  http://admissions.ntu.edu.sg/graduate/R-Programs/Pages/default.aspx  
Coursework: http://admissions.ntu.edu.sg/graduate/coursework/Pages/default.aspx