



STRUCTURAL ENGINEERING

DEPARTMENT OF CIVIL AND INFRASTRUCTURE ENGINEERING

ABOUT THE PROGRAM

Structural engineering (STE) has always been seen as one of the few professions where one can combine real technical skills with artistic flair. Structural engineers are known to be people who enjoy innovation, opportunities, responsibility and excitement, whilst working within a creative profession. Structural engineers plan and design various structures such as buildings, bridges, dams, sport stadiums, towers, and underground structures. As they create the built environment, they have an enormous impact on our everyday lives. In order to design and construct safe and economic structures, they need to keep abreast with the latest methods of structural analysis, modeling concepts for computation, advanced design, material technology, and improved knowledge in structural loadings.

AREAS OF SPECIALIZATION

The availability of inexpensive computer technology allows structural engineers to equip themselves with advanced structural theories to improve the quality of their professional work and achieve global competencies. This is the core of studies in the area of **Structural Analysis, Mechanics and Computation**.

Structural Design and Materials prepares students for a career in structural engineering in its broadest sense. Depending upon individual choice and interest, students may select courses such that they receive training in a specific area of their choice.



COURSE STRUCTURE

Structural Engineering delivers three types of courses: basic, advanced and interdisciplinary. Basic courses focus on the specific aspects of structural systems.

They are offered in five areas:

- (a) Analysis and Computations
- (b) Dynamics of Structures
- (c) Mechanics of Structures
- (d) Material Technology
- (e) Structural Design

While advanced and interdisciplinary courses address new frontiers or the integration of skills in a holistic manner and are designed specifically for doctoral or advanced master's students. Advanced courses provide emerging concepts and techniques in Structural Engineering.



PREFERRED BACKGROUND

Master Program
Undergraduate degree in Civil Engineering; mechanical engineering and architectural engineering will be considered on a case-to-case basis

Doctoral Program:
Master degree in Structural Engineering

ELIGIBILITY REQUIREMENT

To be eligible for admission to the regular Master's program, an applicant must:

- ▶ hold a Bachelor degree (normally from a four-year program), or its equivalent, in an appropriate field of study from an institution of good standing acceptable to AIT;
- ▶ have undergraduate grades significantly above average; the minimum cGPA requirement for admission to the Master's Program is 2.75 or equivalent, at the Bachelor degree level;
- ▶ English Proficiency Requirement: AIT-EET:6 or IELTS-Academic:6 (writing 6) or TOEFL Paper: 550 (writing 59-61) or TOEFL CBT: 213 (writing 25-26): TOEFL IBT: 80 (writing 21-23);

For the Professional Master's (PM) degree program, in addition to the above-mentioned eligibility requirements, an applicant must:

- ▶ have at least 3 years of work experience in areas related to the academic program at AIT and
- ▶ be executives in organizations/companies.



CONTACT US

Ms. Chanya
Structural Engineering (STE)
Department of CIE
Phone: +66 (0)2 524 6052
chanyachaiyanont@ait.asia

