

ICE HKA G&S Model Building Competition 2024

Information pack

Model Building Competition is a team-based competition for civil engineering undergraduates where they would put knowledge from lectures into practice by designing and building a structural model. This is the perfect occasion for undergraduate students to develop a passion for engineering as they put their creativity, problem-solving skills, and workmanship to the test. Participating students are also required to briefly introduce their design, referencing the engineering principles applied and their idea-generation process.

The theme of Model Building Competition 2024 is '**Structural design of bridge against wind load**'. Participants are required to build a model with balsa wood within a limited time. The model will be tested by fixing it in the wind tunnel machine.

- Teams must be formed by full-time undergraduate students.
- Four to six members are allowed in one team.
- All team members must be Student Members of the Institution of Civil Engineers.
- Contestants from previous years are allowed to join the competition.
- Where more than eight teams have registered their interest, teams will be selected by a draw.
- A refundable deposit of HKD100 per team will be collected during registration. The deposit will be refunded if the team is not enrolled in the competition.

Competition format

The competition is divided into three parts, namely model building, testing and presentation. The project specifications, rules, and judging criteria will be made available to successful teams after registration.

Application deadline: 15 December 2023 (Friday)

Date of competition: 23 March 2024 (Saturday)

[Register for the Model Building Competition 2024](#)

Model building session: Each team will be given 210 minutes to complete their models, which shall conform to the specifications provided. Teams shall follow the rules and conditions of the competition, and use only materials and tools provided by the organising committee. A penalty will be imposed if teams work beyond the allocated time or fail to observe the rules and conditions. Teams will also be penalised if their model does not comply with the specifications.

Testing: Details of the test procedures will be provided in the specifications. The performance of the model will be assessed based on (i) taking physical measurements and (ii) visually assessing the structural integrity.

All tests will be performed by ICE HKA G&S Model Building Competition 2024 organising committee under the witness of honourable judges.

Presentation: Each team will be given seven minutes to briefly introduce their design, referencing the engineering principles applied and their idea generation process. The presentation shall be delivered entirely in English, and a penalty will be imposed if the presentation exceeds the allowed time. Innovative designs will also be recognised by extra credits.

Prizes

The following cash prizes will be awarded to the following teams:

Winner	HKD2,000 and certificates
First runner-up	HKD1,500 and certificates
Second runner-up	HKD1,000 and certificates
Best presentation team	HKD500 and certificates

Prizes and certificates for the winner, first runner-up, second runner-up, and best presentation teams will be presented at the end of the event.

*Eligible students may register [here](#) for free student membership.

Please feel free to contact Mr Enoch Lee at +852 6893 1860 or via email at enochlee.ice@gmail.com / gs.hka@ice.org.uk for enquiries.

ICE HKA G&S reserves all rights of the competition except the results of the competition, which shall be at the discretion of the judges.