

Model Building Competition 2021

Competition / Award Description

Model Building Competition is an annual competition which participating teams formed by civil engineering undergraduates compete against each other. The event can arouse the interest of undergraduate students in engineering and provide them with a valuable opportunity to apply their technical knowledge and creativity into practical use. This competition also requires students to present their engineering justification of the model built, and it would further polish their presentation skills.

Participants are required to build a model made of balsa wood within a given time limit. The model will be tested by applying loads on the bridge fixing a wind tunnel machine. The theme of this year is 'Introducing and demonstrating bridge design against wind load.'

Notes

- 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.
- If there are more than eight teams registered successfully, contestants will be selected by a draw.
- A refundable deposit of HKD100 per team will be collected during registration. This deposit will be refundable if the team is not enrolled in the competition.

Competition Format

The project specifications, rules and judging criteria will be made available after the event registration. The competition consists of three parts: model building, testing and presentation.

Model building: Teams are given 210 minutes to complete the model according to the specifications of the competition by using materials and tools provided by ICE only. Penalty is applicable if overtime working happens.

Testing: The model will be tested based on the project specifications. The assessment of the structural performance includes both physical measurements (ie. dimensions, self-weight) and structural integrity/efficiency (ie. loading performance).

All tests will be performed by ICE under the witness of honourable judges.

Presentation: Each team is given five minutes to illustrate their engineering justification regarding the model in English only. Penalty is applicable if the presentation is over five minutes.

Prizes

The cash prize will be awarded to

Winner team: HKD3,000 and certificates

First runner-up team: HKD1,500 and certificates

Second runner-up team: HKD500 and certificates

Best presentation team: HKD300 and certificates

Prize and certificates for winner, first runner-up, second runner-up and best presentation teams will be presented in G&S Annual General Meeting.

Application Deadline: 30 November 2020 (Monday)

Date of competition: 20 February 2021 (Saturday)

*You may register [here](#) online for student membership for free.

Please feel free to contact Ms Clementine Chau on +852 9288 2057 or via email at clementinechau.ice@gmail.com / gs.hka@ice.org.uk for any enquiry.

ICE HKA G&S reserves all rights of the competition except the result of judgement.