



## Tentative Programme

**Day 1**  
(22 September 2019)

12.00 pm - 08.00 pm  
Registration



**Day 2**  
(23 September 2019)

8.45 am  
Model Construction Briefing  
9.15 am - 5.30 pm  
Model Construction  
5.30 pm - 10.00 pm  
Booth Preparation



**Day 3**  
(24 September 2019)

8.45 am Opening Ceremony  
9.30 am - 5.00 pm  
Model Exhibition, Poster &  
Multimedia Presentation  
9.00 am - 5.00 pm  
Testing & Assessment of  
Models

**Day 4**  
(25 September 2019)

8.30 am - 5.00 pm  
Model Exhibition, Poster &  
Multimedia Presentation  
9.00 am - 1.00 pm  
Testing & Assessment of  
Models  
2.30 pm Award & Closing



## Enquiries

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# INTERNATIONAL UTM BRIDGE MODEL COMPETITION 2019

**22-25 September 2019**

**Venue:**

Sultan Iskandar Hall  
Universiti Teknologi Malaysia  
Johor Bahru, Johor, Malaysia

:: Conceive :: Design ::  
:: Implement :: Operate ::



**ORGANISED BY:**



School of  
Civil Engineering

## Introduction

The School of Civil Engineering, UTM has been organizing the bi-annual bridge model testing competition since late nineties. The overwhelming support and interest shown by the students have encouraged the faculty to organise the competition this year. This will be the eleventh time such event is organised. The aim of the competition is to encourage students to use knowledge and creativity to solve practical problems.



## Participants

Open to undergraduate students from local and international colleges, matriculations and Form 4, 5 & 6 of secondary schools.

## Important Dates

Submission of entry form, project brief and drawings before: **15 August 2019**

Notice of acceptance from the organiser:  
**31 August 2019**

## Rules & Regulations

### General

- The number of students in a group must not more than five.
- Each group should be supervised by an academic staff/advisor/teacher. Models must be displayed during the exhibition.
- Entries not complying with the rules and regulations of the competition will be disqualified.
- Decisions by the judges are final.

### Materials

- The model should made from balsa wood with the cross section of 5mm x 5mm as provided by the organiser. Participant should bring their own glue and relevant cutting tools.
- Other materials such as paper, thread, straws, masking tape may be used but are not provided by the organizer

### Model Construction

The bridge must be constructed on 23 September 2019 at the place provided by the organiser in UTM.

### Model Specifications (to be revised)

- Clear span between supports should be 1000 mm. The overall length should be not less than 1200 mm
- The model must be simply supported
- The deck slab of the bridge should be horizontal and must be part of the model bridge structure.
- Maximum deck width is 150 mm and minimum of 100mm and can be accommodate dual curve carriageway of at least 50 mm wide each.
- One void with dimensions of 50mm x 300mm should be provided at middle span as shown in the diagram (refer website)
- Maximum height is 300 mm.
- Base area at both ends must not be greater than 100 x 100 mm.
- Connection : glue or tie (thread)
- The model will be tested for 5 kg loading for a duration of **30 seconds**

## Poster & Multimedia

Each model must be accompanied by one (1) A3 poster and a multimedia presentation (3 minutes) during the exhibition. The A3 poster must have the following information:

- Name of institution / school
- Group name
- Group members
- Advisor
- Model description

## Entry Form (under maintenance)

Please access our website for registration at <http://www.civil.my/utmbridge/>

## Assessment of Model (to be revised)

CATEGORY	MARKS (%)
Lightness and Least deflection	40
Creativity and Buildability	30
Poster and Multimedia presentation	30

## Prizes (to be revised)

CATEGORY	FIRST	SECOND	THIRD
Lightness + Strength	RM1,000	RM750	RM500
Creativity + Buildability	RM1,000	RM750	RM500
Poster + Multimedia	RM1,000	RM750	RM500
Overall	RM1,500	RM1,000	RM750
		4-5th Place - RM500	6-10th Place - RM400



## Accommodation

Accommodation for the participant are not provided. However many accommodations are available inside and also outside near the campus as listed on our website. Please contact them directly for inquiry and booking.

## Fee per entry

School - RM 350

College / University - RM 400

The participants have to bear their own expenses for the traveling, accommodation and meals.

[www.civil.my/utmbridge/](http://www.civil.my/utmbridge/)