



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



UTM
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Enquiries

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INTERNATIONAL



MODEL COMPETITION 2019

22-25 September 2019

Venue:

**Sultan Iskandar Hall
Universiti Teknologi Malaysia (UTM)
Johor Bahru, Johor, Malaysia**

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



ORGANISED BY:



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

School of
Civil Engineering

Introduction

The School of Civil Engineering, UTM has been organizing the biennial bridge model testing competition since late nineties. The overwhelming support and interest shown by the students have encouraged the school 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 universities, colleges and matriculations; and **secondary school students** (Form 4, 5 & 6 only)

Important Dates

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

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

Fee per entry

School - RM 350
College / University - RM 400

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

Entry Form

Please access our website for registration at:
<http://engineering.utm.my/civil/utmbridge2019/>

Rules & Regulations

General

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

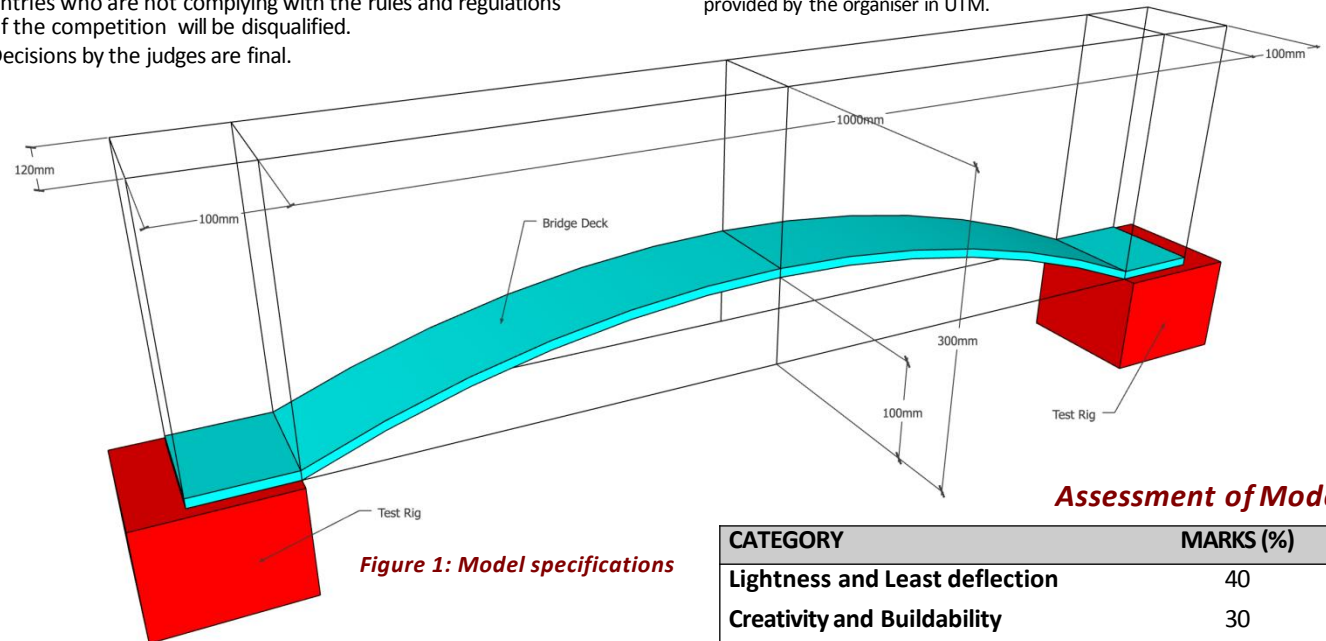


Figure 1: Model specifications

Model Specifications (Figure 1)

- 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 vertically curve from 0.0 mm at support to 100 mm at mid-span and must be part of the bridge structure.
- The width of the deck should be 100±20 mm and can be accommodate dual carriageway of at least 50 mm wide each.
- 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 contain the following information:

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

Materials

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

Model Construction

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

Assessment of Model

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

Prizes

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 is not provided by the organiser. However there are many on-campus accommodations; and nearby hotels and lodging available for booking, as listed on our website. Please contact them directly for inquiry and booking.