



Race for BOSSES is a competition to showcase each faculty's creativity in designing an unconventional human-powered vehicle which will be driven by the dean of the faculty.

RULES AND REGULATIONS

Participants:

1. Each faculty may only send one team which consists of the DEAN as the RIDER for the unconventional vehicle, and a maximum of 6 team members (excluding the Dean) to build the vehicle.
2. The Team Manager must be academic staff, the Assistant Manager has to be staff and remaining 4 members have to be 1 staff and 3 students who are affiliated to the faculty.
3. Each registered team will be allocated **RM500** to build the vehicle and additional expenses will be borne by the faculty. However, each team is encouraged to spend within the given budget.

Vehicle Design:

1. The vehicle **SHOULD NOT** be a conventional one or identical to any commercially available vehicle.
2. The dimensions of the vehicle should not exceed $2\text{ m} \times 2\text{ m} \times 2\text{ m}$.
3. The vehicle should be solely powered by human and should not be assisted by any external power supply such as batteries, motors, fuel, renewable energy and etc. However, the external power can be used for other purposes such as for decoration.
4. The rider must ride on the vehicle to move (both feet are not touching the ground).
5. The vehicle **MUST** have a braking system that will allow it to safely stop in a distance of 10 meters following the 80 meters race.
6. The use of explosives, fire or dangerous chemicals is prohibited.
7. The whole operating vehicle must be in one entity (e.g.: launcher is not allowed).
- 8. The vehicle should reflect the identity of its faculty while the functionality and design of the vehicle should be based on `**
9. Participating vehicles are examined prior to Qualifying Round on the day before the contest. The team that fails the examinations is not allowed to participate in the Qualifying Round.
10. A team will be disqualified if the vehicle poses danger of any kinds to any persons or other vehicles in the venue.
11. The legitimacy of any actions not provided here will be subject to discretion of the referees.

Wining the competition:

There are three parts to this event (i) The Fastest Vehicle, (ii) Most Creative Design and (iii) UTMost Grand Prize

(i) The Fastest Vehicle

1. A special designed track is used to determine the fastest vehicle (Appendix 1- Draft layout).
2. The rider **MUST BE** the Dean of the respective faculty. Replacement rider will be penalized with a longer track which starting point is further away from the finishing line if compared to the normal starting point (+10 meters).
3. In the qualifying round, each team will be given two chances to clock the lap time for their vehicle. Four vehicles with fastest lap time will qualify to the final round.

4. During the race, vehicle must be rode on its designated track.
5. During the qualifying round, each team is limited to a maximum of 5 minutes in the track. For vehicle that fail to finish the race, the remaining distance will be jotted down and will be used to decide their ranking if there are many other vehicles in the same situation.
6. In the final round, the top four qualified vehicles will race against each other to be the first to reach the finishing line.
7. Prizes will be awarded to the 1st, 2nd and 3rd places that represent the 3 fastest vehicles that finish the race respectively.

(ii) Most Creative Design

1. All participating vehicles must be exhibited during the UTMost event at the designated booth.
2. Each team is required to prepare an A0 sized poster (841x1189mm) describing the vehicle.
3. Demonstration of the vehicles and additional presentations tools such as brochures/ videos/ slides and *etc* for visitors are encouraged.
4. Prizes will be awarded to the 1st, 2nd and 3rd place. The assessment is based on Creativity, Identity and Functionality of the vehicle.

(ii) UTMost Grand Prize

1. Team with highest points collected from from *The Fastest Vehicle* (40% weight) and *Most Creative Design* (60% weight)) will win the **UTMost Grand Prize**. Point's distributions are as follow based on ranking (assume 20 participants):

1 st	: 20 points
2 nd	: 19 points
3 rd	: 18 points
4 th	: 17 points
...	
...	
18 th	: 3 points
19 th	: 2 points
20 th	: 1 point

Audiences:

1. **Race for BOSSES** is expected to attract big crowd during the event as public members* can vote for the *Most Creative Design* award. Two hampers are to be won by public members who participated.

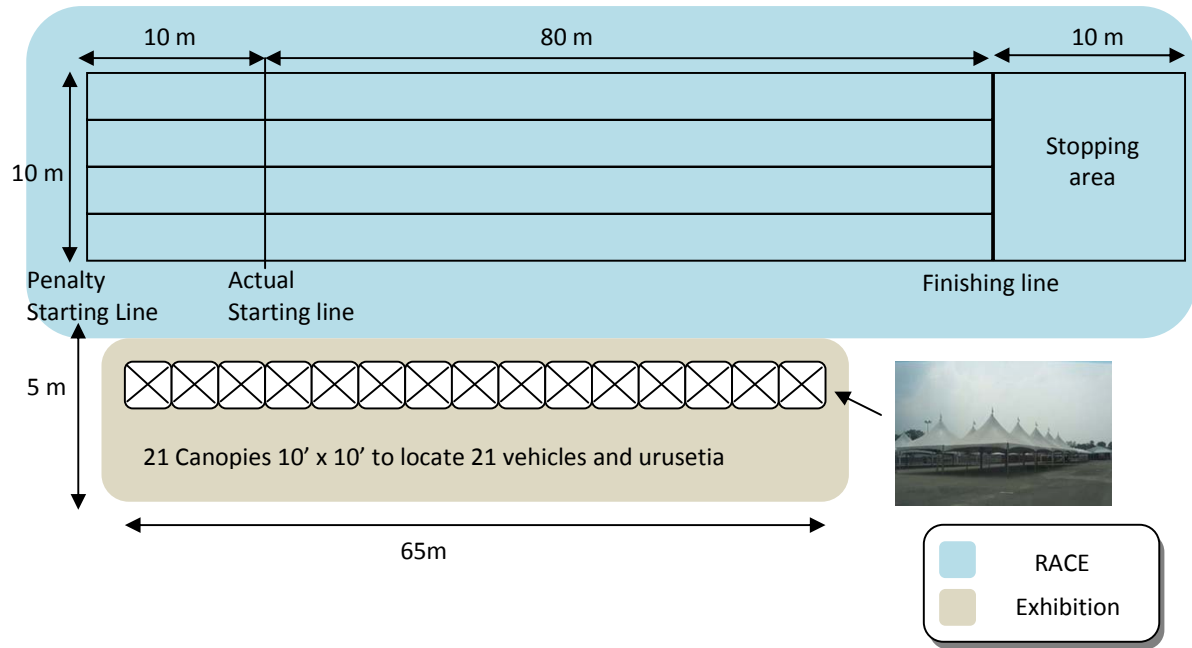
***Notes: Only Secondary School Students are eligible to vote.**

Referee's Decision

1. Referee's decision is final.

Appendix 1: Draft layout

All participating vehicles will take part in an exhibition and straight-path race for a distance of 80 meters. The layouts of the race track and exhibition area are shown in figure below.



Specification:

1. Area needed is **100m Length x 15m Width**. Suggested venue is at Padang Kawad.
2. The track is 80m. The **Penalty Starting Line** is for team with rider other than the dean. The **Actual Starting Line** is for team with rider who is the dean. The last 10m is the stopping area.
3. Canopy dimensions: 3.0 m x 3.0 m; Centre Height 3.05 m; Wall Height - 2.15 m
4. 21 canopies are needed.

Appendix 2: Important dates and tentative competition schedule

Important dates

Month	Week	Items
February	1	
	2	
	3	1 st Briefing.
	4	Dateline for registration submitting.
March	1	
	2	2 nd Briefing.
	3	Inspections, Voting
	4	UTMost!

Tentative Competition schedule (Thursday 8.00am – 12.30pm)

Total time needed (**4 hours and 30 minutes**)

1st ROUND (3 hours)	
Qualifying round for each team to clock fastest time	
8.30am Registration	
1st Trial	2nd Trial
9.00am : Team 1,2,3,4	10.00am : Team 1,2,3,4
9.10am : Team 5,6,7,8	10.10am : Team 5,6,7,8
9.20am : Team 9,10,11,12	10.20am : Team 9,10,11,12
9.30am : Team 13,14,15,16	10.30am : Team 13,14,15,16
9.40am : Team 17,18,19,20	10.40am : Team 17,18,19,20
9.50am : Team 21,22,23,24	10.50am : Team 21,22,23,24
MOST CREATIVE DESIGN JUDGING (1 hour)	
(11.00am-12.00pm)	
3 judges and 100 audiences will give marks	
FINAL (10 minutes)	
12:00pm-12.10pm	
(1 st , 2 nd and 3 rd fastest)	
PRIZE PRESENTATION (20 minutes)	
12:10pm-12.30pm	

Appendix 3: Awards

There will be three categories of award allocated in the competition:-

1. The Fastest Vehicle (1st Prize, 2nd Place, 3rd Place)
2. Most Creative Design (1st Prize and 2nd Place, 3rd Place)
3. UTMost Grand Prize (1 x Grand prize)

Awards	Judges	
Fastest vehicle	Fastest vehicle are determined by the fastest time taken to finish a track.	
Most Creative Design	70%	Three Main Judges using Race for Bosses Evaluation Form (Appendix 4) 1. UTM Representative Prof Ahmad Kamal, Pengarah Unit Promosi Universiti UTM 2. SIRIM Representative Pengarah SIRIM 3. Industrial Representative Industrial
	30%	100 First Audience Votes using Race for BOSSES Nomination form (Appendix 5)
UTMost Grand Prize	40% Fastest Vehicle Points + 60% Most Creative Design Points	

Winner	The Fastest Vehicle	Most Creative Design	UTMost Grand Prize
1 st	<i>Special Trophy,</i> certificate and book	<i>Special Trophy,</i> certificate and book	<i>Special Trophy,</i> certificate and book
2 nd	Trophy, certificate and book	Trophy, certificate and book	
3 rd	Trophy, certificate and book	Trophy, certificate and book	

Appendix 4: Evaluation form draft



RACE FOR BOSSES EVALUATION FORM

Please give the marks on the right column according to the given criteria.

Team: _____

Items	Poor (1, 2, 3)	Good (4, 5, 6, 7)	Excellent (8, 9, 10)	Marks (1 ~ 10)
Originality	<ul style="list-style-type: none"> Design is a duplication work 	<ul style="list-style-type: none"> Design is a modification work 	<ul style="list-style-type: none"> Design is not seen before and significantly different from all others 	
Design theme	<ul style="list-style-type: none"> No design theme is shown on the product 	<ul style="list-style-type: none"> Medium design theme 	<ul style="list-style-type: none"> A strong and creative design theme can be seen on the product 	
Functionality	<ul style="list-style-type: none"> Tried to be creative but apparently failed to work. 	<ul style="list-style-type: none"> Shows creativity that works. 	<ul style="list-style-type: none"> Shows creativity that works, exciting and fresh. 	
Craftsmanship	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> Medium 	<ul style="list-style-type: none"> High 	
Total				

Evaluator's comments/suggestions:	
Name and signature:	Date:

Appendix 5: Nomination form



RACE FOR BOSSES NOMINATION FORM

You have a chance to win away a hamper!

Just nominate the top 5 most creative designs according to the right sequence.

1. _____ - Most creative design that is not seen before, works, exciting and fresh.
2. _____ - 2nd most creative design
3. _____ - 3rd most creative design
4. _____ - 4th most creative design
5. _____ - 5th most creative design

Name and signature:	Date:
Address:	Phone number:

Appendix 6: Race for BOSSES committee members

Advisor	:	Dr Abdul Rashid Husain
Coordinator	:	Dr Yeong Che Fai
Secretary	:	Dr Shafishuhaza Binti Sahlan
Technical	:	Dr Bruce Leow Chee Yen Dr Leow Pei Ling Dr Eileen Su Lee Ming
Logistic	:	Dr Khairul Hamimah Binti Abas Dr Zool Hilmi Bin Ismail
Award	:	Dr Lim Cheng Siong
Students	:	6 x students