



The Institution of
Engineering and Technology

ARADAY CHALLENGE MALAYSIA 2019

Official Rules & Regulations 2019

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These are the **Official Rules & Regulations** that govern how the **Faraday Challenge Malaysia 2019** operates. In these rules, “we” and “us” refer to the Organiser and “you” and “yourself” refers to an eligible entrant. By entering, you agree to be bound by these official rules.

A. Overview

The Faraday Challenge is a STEM-based Competition organized by **The Institution of Engineering and Technology (IET)**. It has been specifically designed to give students the opportunity to research, design, develop and make creative solutions to genuinely tough engineering problems. In addition, the challenge encourages students to work effectively as a team and helps to promote perseverance in completing a task.

B. Objectives

- To serve as a platform for students to contribute ideas and innovations to demonstrate their capability to create something new and solve problems.
- To stimulate and enhance student capacity for critical and creative thinking.
- To promote interest in Science, Technology, Engineering and Mathematics (STEM) Education among secondary school students.
- To involve more female students in science and engineering and to promote their interest in STEM

C. Eligibility

- You are required to be a student studying at a **secondary school** or equivalent level to participate in the Faraday Challenge.
- A team should comprise **5 students**.
- Team members must be from the same school.

D. Registration Fee

The Faraday Challenge is **free of charge** to enter.

E. General Information

- Faraday Challenge Malaysia will be conducted in three levels, i.e. **State Level**, **National Level** and **Regional Level**.
- The general Information for each level is as below:

State Level		
Sarawak	22 June 2019 (Saturday)	Swinburne Auditorium Block G, Swinburne University Sarawak
Penang	29 June 2019 (Saturday)	MEK 1 & 2, School of Mechanical Engineering, Engineering Campus, Universiti Sains Malaysia
Johor	07 July 2019 (Sunday)	Lecture Hall 1019, University of Southampton Malaysia, Johor
W. P. Putrajaya	13 July 2019 (Saturday)	Multipurpose Hall, Heriot Watt University, Putrajaya
Selangor	27 July 2019 (Saturday)	Faculty of Mechanical Engineering, UiTM Shah Alam, Selangor
W. P. Kuala Lumpur	03 August 2019 (Saturday)	Honeywell International Sdn Bhd, Jalan Kerinchi, Kuala Lumpur
National Level		
17 August 2019 (Saturday)		Honeywell International Sdn Bhd, Jalan Kerinchi, Kuala Lumpur
Regional Level		
05 October 2019 (Saturday)		Brunei

F. Registration Link

You can register online at <http://bit.ly/IETFaradayMalaysia> or contact your respective state organisers to register yourself in the state level competition.

G. Food and Beverages

Breakfast and lunch will be provided free.

H. Dress Code

You are required to wear your **school uniform or event T-shirt** provided by the organisers (if available). Keep your appearance neat and tidy on the Faraday Challenge Day.

I. Competition

- The theme of the Faraday Challenge 2019 is **Smarter Homes, Smarter Living**.
- You and your team are required to design/develop a system/product using the **Maker UNO** development kit provided by the organisers during the Faraday Challenge Day.
- You and your team will be provided a technical handbook including a step-by-step tutorial on how to develop a system using Maker UNO one week prior to the competition.
- You and your team are required to bring at least **one laptop or tablet** to do coding tasks and to prepare your presentation slides. Should you face issues or challenges in doing so, **please inform your respective state organisers** so that they may provide an alternative for you.
- The **requirement and specification** of the product, including the details of judging criteria will be released on the day of the competition.
- We will give each team a certain amount of **Faraday currency** to purchase all essential materials and electronic components that are required to develop your product. The list of available materials will also be released during the competition.
- You and your team are required to prepare a **presentation** and demonstrate your product to the judges at the end of the competition.
- The decision of the judges is final.
- Please refer to the Appendix A for the **schedule of the day**.

J. Prizes

- **First Prize** : Cash Prize, Gold Medals and Certificates of Achievement
- **1st Runner-up** : Cash Prize, Silver Medals and Certificates of Achievement
- **2nd Runner-up** : Cash Prize, Bronze Medals and Certificates of Achievement

All participants will receive a certificate of participation after completing the challenge. The **top 3 teams from each state level** will be invited to the **National Finals in August** to compete for a chance to represent Malaysia at the **Regional Faraday Challenge in Brunei**.

K. Risk Assessment

The safety of participants is our main concern in this competition. We are taking a lot of control measures to reduce the risk.

- All electrical equipment is low voltage to prevent electric shocks.
- There is a possibility of burns occurring when connecting and disconnecting components. Thus, all students will receive a briefing about the correct usage of electrical components to avoid short circuits.
- We will advise students about safe working practices and on the basic use of hand tools, e.g. screwdrivers, scissors, staples etc. to avoid the risk of cutting or abrasion.
- Extension cables will lead to the risk of tripping. We will ensure that extension cables are not extended across the floor where students will be walking.

L. Other Conditions

By entering this competition, you agree:

- To abide by the Official Rules; **and**
- That IET's decisions will be final and binding on all matters related to this competition; **and**
- That, by accepting a prize, IET may use your proper name and photos posted online or in any other media which in connection with this competition, without payment or compensation to you, except where prohibited by law.

We hope you and your team will enjoy this amazing experience!

APPENDIX A: SCHEDULE OF THE DAY (may differ according to state/territory)

Time	Activity
08.30 – 09.00 am	Registration Starts
09.00 – 09.30 am	Opening Remarks & Briefing of Competition
09.30 – 12.30 pm	Project Development
12.30 – 01.30 pm	Lunch Break
01.30 – 02.30 pm	Finalizing Project & Presentation Slide Preparation
02.30 – 04.00 pm	Project Pitch & Demonstration
04.00 – 04.30 pm	Awards Giving & Closing Ceremony

Pls refer to each state organiser for the detailed schedule.