

STEM Grand Challenge 2022 Handbook

Organised by the Faculty of Science and Engineering (FOSE),
University Of Nottingham Malaysia (UNM)

The Challenge: Towards Sustainable Environment

Create a video presentation to provide a solution for environmental challenges. Judges will select the top eight teams for Final Pitching (Grand Finals). Participants are given the following four topics of concern to choose from. Please choose ONE to address with a proposed solution or idea to be presented in your video:

- Topic 1: Climate Change
- Topic 2: Waste Recycling
- Topic 3: Plastic Pollution in the Oceans
- Topic 4: Flood Risk Management

Registration

- No fees are charged for participation.
- This competition is open to ALL schools in Malaysia and students between 13 - 18 years old (in the year 2022). Each school can register up to a maximum of 3 teams. Each team should consist of 2-3 students. In the registration form, each student's name, class, and email contact should be included.
- Only ONE person in charge (school representative) can register for the school. This person in charge can either be the school principal, senior assistant curriculum, or a teacher from your school.
- Registration can be done through your school representative on: bit.ly/stemCarnivalRegistration2022.

Deadline for student registration: Monday, 14th February 2022 (11.59PM)

Video Submission for Preliminary Round

- Participants may use any software to produce the video. The length of the video minimum 30 seconds to maximum 5 minutes.
- All entries must be completed in English and the use of subtitle is optional. Participants need to ensure that the video is below 1 GB and it is recommended to use MP4 format.
- Participants can upload the video here: bit.ly/stemCarnivalVideoSubmission.
- All participants will be provided with an e-certificate of participation.
- The judges will evaluate the submitted videos according to the judging criteria (see below).
- The most liked video published in the [FOSE Facebook](#) will receive RM 250 (team) and RM 250 (school).

Grand Challenge (Final Pitching)

- The format of the Final Pitching will be virtual via Zoom.
- An email briefing will be given to the selected teams prior to the Final Pitching.
- All teams will present their video submission (max. 5 mins) consisting of their prototype, idea, or solution followed by Q&A with judges (5 minutes). Total duration is 10 minutes per team.
- All finalists will be provided with an e-certificate of participation after the Grand Finals.

Important Competition Dates

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| Registration deadline: | Monday, 14 th February 2022, 11:59 pm |
| Video submission deadline: | Monday, 21 st February 2022, 11:59 pm |
| Preliminary round result announcement: | Monday, 28 th February 2022 |
| Voting deadline for most liked video: | Monday, 7 th March 2022, 11:59pm |
| Final pitching: | Saturday, 12 th March 2022, 10:00am |

Prizes

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|------------------|-------------------------------------|
| Champion: | RM 1,000 (Team) & RM 1,000 (School) |
| 1st Runner-Up: | RM 750 (Team) & RM 750 (School) |
| 2nd Runner-Up: | RM 500 (Team) & RM 500 (School) |
| Most liked video | RM 250 (Team) & RM 250 (School) |

Judging Criteria for Preliminary Round

Problem Statement (20%)
Proposed Solution (40%)
Expected Impact (15%)
Presentation (15%)

Judging Rubric for Final Pitching

Technical (20%)
Practicality (Problem Solving & Impact to the Community) (20%)
Creativity (15%)
Content (15%)
Slides Presentation (10%)
Oral Presentation (5%)
Q&A (15%)

For more information, contact us on:

FOSE STEM CARNIVAL 2022
UNIVERSITY OF NOTTINGHAM MALAYSIA
Miss Shekinah Dalayya (Whatsapp +60183125838, khcy6sdd@nottingham.edu.my)