

# UGM Reactics Wins 1st Place in Malaysia Chem-E-Car Competition

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UGM Reactics Chem-E-Car team secured the first position in the 2021 IEM Chem-E-Car Presentation Competition held online on 23 October. The competition was organized by the Institution of Engineers Malaysia (IEM) and hosted by UCSI University this year.

Team leader Mayradaffa Adyudya said the team built a chemical car prototype called Reactics Kanaka 1.0, which uses pressurized air from a chemical reaction between hydrogen peroxide and yeast (catalyst). The car moves due to the repeated pneumatic movement and will stop once the air product in the pressure vessel runs out.

There are three stages of the competition, namely pre-recording presentation, quiz session, and QnA session. The presentation video, Mayra added, must show the manufacturing process and its explanation. It also has to showcase the completion of challenges in which the car needs to kick the ball and score goals.

"We recorded the video at the Paksima Workshop and canteen of the UGM Faculty of Mathematics and Natural Sciences. The quiz and QnA sessions were held on the day of the contest, and we



needed to answer questions about the history and knowledge of Chem-E-Car and things related to our presentation video,” said Mayra on Tuesday (26/10).

Mayra continued, it took about three months for the team to prepare for this competition, from research, trials to video shooting. The leader hopes that this achievement will encourage the team to continue to win in the future.

“This victory is not the end of the UGM Reactics Chem-E-Car journey. It should motivate us to strive for the best results in the competitions we enter next, nationally and globally,” said Mayra.

Author: Desy

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