

Arjuna Scoops Two Awards at FSEV Concept Challenge 2021

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The UGM electric vehicle team Arjuna won two awards at the 5th Annual FSEV Concept Challenge organized by Formula Bharat India on 30 July-4 August. Arjuna was crowned winner of Best Battery Design in the Engineering Design category and 3rd place winner of Team Management. The 2021 season marks the second participation of the team in the competition. This year, they competed with 29 teams from India, one team from Turkey, and a fellow Indonesian team from the Sepuluh Nopember Institute of Technology.

“We are proud of this achievement. Hopefully, we can continue to excel in the future,” said the head of the Arjuna team for the FSEV 2021, Muhammad Raihan Hilmy, Thursday (5/8).

Hilmy added, for the Best Battery Design, the team was required to provide clear objectives of the vehicle’s power and energy requirements achieved with a compact battery assembly and ensure its safety. Safety in the system is a crucial aspect of design that relies heavily on material selection, battery management system integration, and quality electrical components.

“Participating for the second time, Arjuna aims to gain as much experience and feedback as possible to finalize the team’s preparation and design concept for next year,” said Hilmy.



Apart from the FSEV 2021, Arjuna regularly participates in the Formula SAE Japan (FSAEJ). Due to the pandemic, the competition is currently open only to Japanese teams. Ninth generation Arjuna captain Inherenta Muhammad Amarutsli said the team aspired to be the best research-based electric vehicle team in Asia to contribute to the electric vehicle development in Indonesia. The team conducted regular evaluations to keep improving from generation to generation.

“Our participation in various competitions proves that the young generation of Indonesia is qualified to be involved in the development of the world’s electric car,” said Inherenta.

The FSEV 2021 provides an opportunity for students to conceptualize and design a Formula Student Electric Vehicle Powertrain Package and examines student understanding of management systems in the electric vehicle industry. The competition features four major categories: Procurement Strategy, Team Management, Software and Intelligence Integration, and Engineering Design.

Author: Ika

Photo: Each member took a COVID-19 test prior to the in-person practice/competition session

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