

ERM

ELECTRIC RACING MISKOLC



MISKOLCI
EGYETEM
UNIVERSITY OF MISKOLC



OUR TEAM

Electric Racing Miskolc is an initiative group of volunteering students located in Hungary, Miskolc, where team members can gather extensive understanding and experience in the automotive industry and various fields of motorsport. They can learn the true meaning of teamwork, as well as use their knowledge in practice.

Students from the **Faculty of Mechanical Engineering and Informatics, Economics, Materials Science**, all of which are part of the undergraduate and master's programmes at the region's leading higher education institution, are part of the team, along with a number of teachers and doctoral students.

Besides providing the human resources, the University of Miskolc also provides the operation for the Electric Racing Miskolc with significant professional, infrastructural, financial support, and personal relations.

The interests and extra activities of the team members include the automotive industry and there are several the **national and regional scientific students' competitions** as well as **thesis works** to prove it. It is natural that the members of the Electric Racing Miskolc are willing to invest their free time into research and development of the project, proving their dedication to and success for the Formula Student movement.



FORMULA STUDENT

The goal of **Formula Student** is to design, construct and introduce a formula racing car to a conceptual market and to race that car on several international events with the help of all members who have a legal student status.



The organization ensures the team members gain valuable insights in their field of expertise and have the opportunity to build channels which enable smooth communication between the students of Formula Student and the supporter companies of the movement. These competitions are held in several countries across Europe, the most notable ones are Germany, England, Austria, Spain and Hungary.

Static events are presentations which include defending the engineering design, presenting business plan and cost analysis. These give 40% of the total score.



Dynamic events include the „Acceleration”, the so called „Skid Pad” which tests the suspension dynamics of the car on an „8” shaped track, and the „Autocross” which examines the car’s performance on a specific section of the racetrack during measured lap time. Finally, the „Endurance” event where the overall time performance and fuel efficiency of the vehicle are taken under scope on a 22 km long track.

ACHIEVEMENTS

In addition to Formula Student competitions, our team members have also competed in national university engineering competitions. The knowledge gained there is used to design and build the car and pass it on to the next generation.



FORMULA STUDENT COMPETITIONS

The Formula Student races presented earlier are important events in the life of the team. In 2024, we had the opportunity to participate in three of them where we gained a lot of experience. At the **FS Easter** and **FS Czech Republic** we presented our Business Plan Presentation, while at **FS Alpe Adria** we took our semi-finished car to the preliminary tests.



ENGINEERING COMPETITIONS

Members of our team also compete in other engineering competitions. In spring 2023, we came 3rd in the Techtogether Automotive Hungary competition and won 2 special prizes. In autumn 2023, we came 2nd in the Techtogether+ competition and won 3 special prizes. In the autumn of 2024, we came 1st in the Techtogether+ competition and received 2 special prizes.

OUR GOALS

Our goal is to compete in more races in the **electric category** in **2025**. In addition, the long-term development plans for the race car include **self-driving features**, which will enable our car to complete the course without a driver.

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Contact

ermiskolc.hu

sponsor.erm@gmail.com

For phone contact please first
contact us by email.



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