

Bavarian-Hungarian student project on self-driving vehicles starts for the second time

With the support of BAYHOST, the kick-off meeting for the second edition of a Hungarian-Bavarian student project on autonomous driving took place at the Institute for Driver Assistance and Connected Mobility (IFM) at Kempten University of Applied Sciences in Memmingen from 19 to 21 April 2024.

The initial pilot project in 2023 was very well received by students and lecturers. In addition to the new partner, the Kempten University of Applied Sciences, three other higher education institutions are involved: Széchenyi István University in Győr (Hungary), Hochschule München University of Applied Sciences and Landshut University of Applied Sciences.

During the kick-off meeting, 11 students prepared themselves to solve tasks in the field of autonomous driving. The students were introduced to the platform for the virtual environment in which they will be working during the project. In two interactive workshops, the IFM Safety Team led by Prof. Dr. Rolf Jung instructed the students on the topics of "Safety Of The Intended Functionality (SOTIF)" and "Simulation-based testing of foreseeable misuse". The students dealt with critical situations that can arise when people misuse the systems for assisted and automated driving or when unexpected external circumstances occur (construction work on the road, detour, missing markings, etc.).

The workshops ended with a practical exercise with F1tenth model vehicles prepared by the Research Center of Vehicle Industry at Széchenyi István University in Győr.

Further practical insights were provided during a tour of the Fakt Motion test site located directly next to the IFM and a visit to Continental.



Images: Kempten University of Applied Sciences

At the end of the kick-off meeting, two student teams were formed. Each team consists of students from Hungary and Bavaria. These teams will jointly work on tasks in the field of autonomous driving at two further project meetings in Győr and in Munich and Landshut. Between the face-to-face meetings, the collaboration will continue virtually until the teams compete against each other in the final in Munich.

Some of the students have already gained in-depth practical experience as members of Formula Student teams or the SZEnergy team at Széchenyi István University in Győr which develops energy-efficient vehicles for urban areas.

The project does not only promote the exchange between the students, but also the cooperation between the participating higher education institutions at lecturer level, who jointly create the tasks and provide the students with assistance in solving them.