



The Technical University of Cluj-Napoca inaugurated the first "Building Automation" laboratory

The Technical University of Cluj-Napoca inaugurated Wednesday, 13 October, the first Building Automation laboratory within the Automation Department of the Faculty of Automation and Computer Science. Prof. Vasile Țopa, PhD, Eng. , rector of our university, Prof. Liviu Miclea, PhD, Eng., dean of the Faculty of Automation and Computer Science, Assoc. Prof. Honoriu Vălean, PhD, Eng., head of the Automation Department, Lecturer Valentin Sita, PhD, Eng., the initiator of the laboratory, together with colleagues, students and members of the local press attended the event.

"When designing a building, it is important to include such systems in the project to dispose of necessary automation equipment. Within the Building Automation Laboratory, we can perform advanced activities and experimental tests to integrate the main types of systems designed for buildings to collect data from these buildings for monitoring, controlling the maintenance, tracking and optimising the consumption. The persons who want to build a house have to pay attention to the consumption costs, and a graduate of the Building Automation Discipline is in charge with the energy efficiency", declared Lecturer Valentin Sita, PhD, Eng., the laboratory was designed as an educational space in the building automation domain and was equipped with multiple development platforms which help the hardware and software implementation of the projects, and specific platforms for the development and demonstration of solutions, or integration with other systems. The laboratory was designed for teaching and research activities, graduation thesis, dissertations, PhD thesis, and the development of projects in collaboration with other universities, research institutes, and local, national or international companies from the economic environment.

The investment will allow students to test, simulate and implement different technologies and systems specific to the building automation industry, to help them prepare for a career in engineering. Furthermore, they will have the chance to design and configure complete and up-to-date systems. Due to the scientific partnership between the Technical University of Cluj-Napoca and the KNX International Association, the laboratory disposes of software licenses for specific equipment programming, KNX being the most widespread international standard for building automation.

The laboratory has eight reconfigurable stands containing boards, sensors and accessories and a KNX experimental stand. Over 1000 students, post-graduate students, PhD students, teaching professionals and researchers will benefit from the laboratory equipment.





