芝浦工業大學 SHIBAURA INSTITUTE OF TECHNOLOGY

AY2024 Global PBL (Outbound) Performance Report

Exercises in Inventive and Creative Design

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/03/03 ～2025/03/11	Viet Nam	Hanoi University of Science and Technology	Department of Machinery and Control Systems Undergraduate 3rd grade	(SIT) Students 17, Student Staff 2, Professor 3 (Hanoi University of Science and Technology) Students 31, Student Staff 3, Professor 6	HASEGAWA Hiroshi (Department of Machinery and Control Systems)、 WATANABE Dai (Department of Machinery and Control Systems)、 BUI NGOC TAM (Innovative Global Program)

Group photo of CID@HUST

The Department of Machinery and Control Systems has collaborated with the Department of Mechanical Engineering and the Department of Mechatronics at Hanoi University of Science and Technology (HUST), Vietnam, to hold an exercise project in the second semester of the third year in the Department of Machinery and Control Systems. The project of this exercise was the production of a mechanical energy-storing robot with an arm. Six teams were organized in a global PBL style. 17 participants were from SIT, and 31 participants were from HUST. The total number of participants was 48 students. Specifications for the basic structure of the robot were provided. Each project team created the mechanism, designed the robot using 3D CAD, procured the required materials, and assembled and manufactured the robot. In the final presentation, the teams gave a presentation of their design ideas and held a competition. By working together with Vietnamese students, we believe that the students were able to improve their global engineering skills that will be in charge of the future.

Project Activity (design activity)

Project activity (Production 1)

Project activity (Production 2)

Final Presentation

1st place team