

Bidirectional gPBL on system for SDGs using electronics

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/09/20 ~2025/09/28	Thailand	King Mongkut's University of Technology Thonburi	<ul style="list-style-type: none"> •Department of Electronic Engineering, Department of Electrical Engineering •Undergraduate 3rd grade, Undergraduate 4th grade 	(SIT) Students 10, Student Staff 1, Professor 3 (King Mongkut's University of Technology Thonburi) Students 10, Professor 4	KOIKE Yoshikazu(Electrical and Electronic Engineering Advanced Electronic Engineering), YOKOI Hideki(Electrical and Electronic Engineering Advanced Electronic Engineering), KANOH Shinichiro(Electrical and Electronic Engineering Advanced Electronic Engineering)

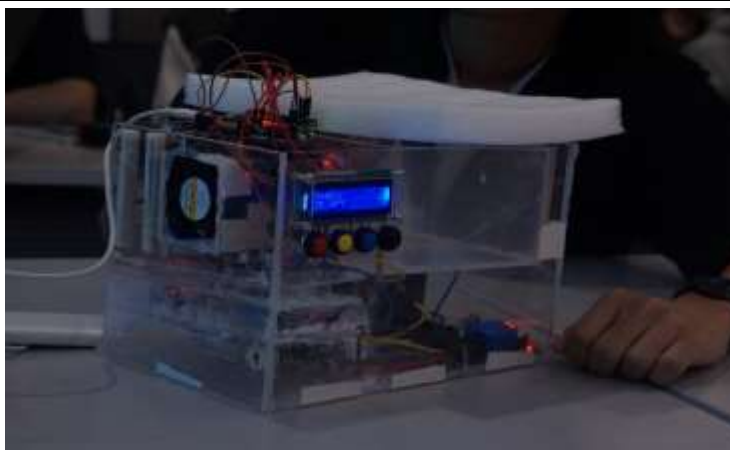


Image1 Trial made product

A Global PBL outbound program was conducted in collaboration with the Department of Electronics and Telecommunications Engineering (ENE) at King Mongkut's University of Technology Thonburi (KMUTT). This is a reciprocal program, and the program held at KMUTT constituted its second half. Students from Shibaura Institute of Technology (SIT) who participated in the outbound program were awarded two credits for "International Internship in Electronic Engineering 2," a specialized elective course. The participants from SIT and KMUTT were divided into five teams of four students each and worked together in a series of workshops. This year's theme was the development of systems related to smart agriculture. The students began working on their projects during the inbound program at SIT and aimed to complete them during the outbound program at KMUTT.

This year's program was conducted with support from Thailand's Digital Economy Promotion Agency (depa). With this support, the students visited the Evolution Experience Center (EEC), operated by the Thai telecommunications company, in the morning during the PBL program. In the afternoon, they visited a farm, operated by a Japanese company, where student representatives had the opportunity to experience an autonomous rice transplanter.

On the final day, each team gave a presentation and demonstration of its project, which were evaluated by faculty members. The team receiving the highest evaluation was presented with an award.

As always, we would like to express our sincere appreciation to the faculty members and students of KMUTT's ENE Department for their wholehearted support. We are also deeply grateful for the support provided by depa this year.



Image2 Startup lecture



Image3 Farm tour



Image4 Final presentation



Image5 Workshop