

Research-oriented gPBL with SU

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2026/06/08 ~2026/06/16	Japan	Silpakorn University	- Advanced Electronic Engineering, Department of Electronic Engineering - Undergraduate 3rd grade, Undergraduate 4th grade, Undergraduate 2nd grade, Undergraduate 1st grade	(SIT) Students 13, Student Staff 7, Professor 3 (Silpakorn University) Students 10, Professor 2	ISHIKAWA Hiroyasu(Electrical and Electronic Engineering Advanced Electronic Engineering), KOIKE Yoshikazu(Electrical and Electronic Engineering Advanced Electronic Engineering), NAKANO Masaki(Electrical and Electronic Engineering Advanced Electronic Engineering)



Image1 Activities in a laboratory1

A research-oriented gPBL program was conducted with students from the Sanam Chandra Palace Campus of Silpakorn University (SU), Thailand. In the Semiconductor Electronics Laboratory, Superstructured Quantum Materials Electronics Laboratory, and Electro-Mechanical Systems Laboratory of the Department of Electronic Engineering (Advanced Electronic Engineering Course) at SIT, teams consisting of 4-5 SIT students and 3-4 SU students worked together on research projects. The program began with short lectures introducing each laboratory's research activities. Participants then learned how to use the research facilities and equipment and conducted activities such as thin-film fabrication, experimental circuit assembly, and sample evaluation. Based on the measurement results obtained, they discussed and analyzed their findings. At the final presentation session, each team presented the outcomes of its project. The presentations were followed by active discussions among students and faculty members, with approximately 30 minutes devoted to questions and discussion for each presentation. Through these discussions, participants deepened their understanding of the research topics and gained valuable experience in international collaborative learning.



Image2 Activities in a laboratory2



Image3 Activities in a laboratory3



Image4 Final presentation