Interanational Exchange Workshop on AI Power for Sustainable Engineering

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/08/18 ～2025/08/27	Thailand	Kasetsart University Asian Institute of Technology	・Department of Civil Engineering, Urban Infrastructure and Environment, Civil Engineering, Department of Planning, Architecture and Environmental Systems, Department of Architecture ・Undergraduate 1st grade, Undergraduate 2nd grade, Undergraduate 3rd grade, Undergraduate 4th grade, Master 1st grade, Master 2nd grade, Doctor 1st grade, Doctor 2nd grade, Doctor 3rd grade	(SIT) Students 42, Student Staff 8, Professor 1 (Kasetsart University) Students 70, Professor 6, Staff 4 (Asian Institute of Technology) Students 60	INAZUMI Shinya(Civil Engineering Urban Infrastructure and Environment)

Image1 Group photo at Kasetsart University (Bangkok Main Campus)

"From August 18 to 27, 2025, the Global Project-Based Learning (gPBL) program was held at Kasetsart University Bangkok Campus, Kasetsart University Sriracha Campus, the Asian Institute of Technology (AIT), and in Pattaya, Chonburi Province. The theme of this year's program was "AI Power for Sustainable Engineering."

Shibaura Institute of Technology (SIT) sent 50 undergraduate and graduate students, mainly from the Department of Civil Engineering. Approximately 70 students from Kasetsart University, together with several students from AIT, also participated, making a total of about 120 students and graduate students in civil engineering and related fields.

During the first half of the program in Bangkok, the participants attended special lectures and lab tours in the mornings, and engaged in group activities in the afternoons, with students divided into nine international mixed groups. Highlights included lectures by Assoc. Prof. Dr. Suttisak Soralump of Kasetsart University on the amplification of ground motion in soft soils of Bangkok, by Dr. Chutiporn Anutariya of AIT on the topic "From Blueprints to Algorithms: How AI is Transforming Civil Engineering," by Lecture by an engineer from a company on the application of machine learning to dam safety inspection. These lectures provided an invaluable opportunity to explore the intersection of artificial intelligence with sustainable infrastructure engineering.

In the second half, a field trip was organized at KU-Sriracha Campus, which included a welcoming session, a special lecture, a student challenge, and a campus tour.

Throughout the group work, participants discussed the applications of AI for sustainable engineering in various subfields of civil engineering, including geotechnical, structural, water resources, and disaster management. In the final presentations, students from SIT, KU, KU-SRC, and AIT jointly presented the outcomes of their collaborative efforts, clarifying the roles that civil engineers should play in building a sustainable future through AI integration.

The program not only deepened students' technical knowledge, but also enhanced their abilities to work across cultures and disciplines. It was a significant opportunity for students to develop international perspectives and practical skills required to address global challenges in engineering."

Image2 Group activity scene

Image3 Group photo at Asian Institute of Technology

Image4 Group photo at Kasetsart University (Siracha Campus)

Image5 Final presentation session (1)

Image6 Final presentation session (2)

Image7 Final presentation session (3)