

Data science competition global PBL

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/09/04 ~2025/09/13	Japan	Institut Teknologi Sepuluh Nopember Suranaree University of Technology Tashkent University of Information Technologies Universiti Malaysia Kelantan	<ul style="list-style-type: none"> • Department of Computer Science and Engineering, Computer Science and Engineering, Department of Information and Communications Engineering, Information and Communications Engineering • Undergraduate 1st grade, Undergraduate 2nd grade, Undergraduate 3rd grade, Undergraduate 4th grade 	(SIT) Students 17, Student Staff 5, Professor 2 (Institut Teknologi Sepuluh Nopember) Students 15, Professor 1 (Suranaree University of Technology) Students 5 (Tashkent University of Information Technologies) Students 7 (Universiti Malaysia Kelantan) Students 5, Professor 2	KIMURA Masaomi (Computer and Communications Engineering Computer Science and Engineering), KANAO Taro (Computer and Communications Engineering Computer Science and Engineering)



Image1 Group photo of participants

During the first two weeks of September (an 8-day program), we conducted a PBL project analyzing machining data. Participants included approximately 20 students from our university and about 30 students from four partner institutions. The data, provided by Professor Sawa from the Mechanical Engineering Department, concerned tool chatter vibrations during metal cutting. The PBL project focused on constructing and evaluating a model to predict the occurrence of chatter vibrations and gain insights into their mechanisms based on this data. Since all participants were students in the field of information engineering, an overview of machining, chatter vibrations, and the dataset was provided before they attempted analysis in teams of five. Despite the short timeframe, the project yielded analyses from various perspectives, proving both interesting and well-received by the participating students.



Image2 Discussion scene1

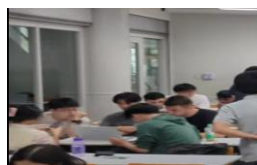


Image3 Discussion scene2



Image4 Discussion scene3