

## Global, Industrial and Community Cooperative PBL(GIC2 PBL)

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
December10 ~December18,2020	Japan	Suranaree University of Technology Hanoi University of Science and Technology Institut Teknologi Sepuluh Nopember UCSI University Institute of Engineering and Technology, Mongolia	Department of Electronic Information Systems Department of Machinery and Control Systems Department of Planning, Architecture and Environmental Systems • Undergraduates 1st grade • Undergraduates 3rd grade • Undergraduates 4th grade • Master 1st grade • Master 2nd grade • Doctor 1st grade • Doctor 2nd grade	(SIT) Students 24, TA 5, Professor 8, Staff 1 (Suranaree University of Technology) Students 8, Professor 1 (Hanoi University of Science and Technology) Students 7, Professor 1 (Institut Teknologi Sepuluh Nopember) Students 7, Professor 1 (UCSI University) Students 8 (Institute of Engineering and Technology, Mongolia) Students 8	INOUE Masahiro(Department of Electronic Information Systems) YAMAZAKI Atsuko(Department of Information and Communications Engineering) YOKEMURA Taketoshi(Department of Electronic Information Systems) MANO Kazuonori(Department of Electronic Information Systems) MURAKAMI Kayoko(Department of Electronic Engineering) ICHIKAWA Manabu(Department of Architecture and Environment Systems) WATANABE Dai(Department of Machinery and Control Systems) HASEGAWA Hiroshi(Department of Machinery and Control Systems)



Image1 Fieldwork of TABIMAE Proj

CEP has been held at three sites around the world. This year, CEP@SIT was conducted as a mixed cyber-physical PBL (online and face-to-face). It is the course on global, industrial, and communities cooperative PBL. Its participant becomes 65 people is consisted of 36 students from Thailand, Indonesia, Vietnam, Malaysia, and Mongolia, moreover 29 participants from SIT's Japanese student. The following companies and communities have contributed to the project on CEP@SIT. Companies: SHIZEN ENERGY Inc., Kanepackage Co., Ltd., TOKITA SEED Co., Ltd., Alpha Code Inc., and picknote. Co., Ltd. Communities: Saitama Pref., Nasu-machi, Tochigi Pref. and The Tourism Bureau of Nasushiobara-shi. Moreover, OMG experience—which is an improvisational education has performed the TABIMAE Project to maximize the emotional value in Nasu town. At the outcomes' presentation of this project, 8 people from the Nasu area, including the superintendent of education of the Nasu Town, the general manager of the Nasu Animal Kingdom, and the president of the Nasu Rindoko Family Farm, and 2 people from Nasushiobara City, including the director of the Nasushiobara-shi Tourism Bureau, attended. This report was published in the Shimotsuke Newspaper.

The CEP@SIT was conducted as a combination of online and face-to-face sessions to prepare for COVID-19. For this purpose, as a space for cyber-physical PBL, we connected overseas students to the co-working space via Google Meet using a webcam and microphone, and then distributed the activities of the co-working space to the participating students in real time as a sharing place. As for the project outcomes, although it was difficult to prototype through the combination of online and face-to-face, the grand prize's team has presented a prototype using Minecraft for a goal image as a Workation for Nasu-machi.



Image2 Co-working space (GLC)



Image3 Online by Google Meet



Image4 Workation in NASU



Image5 Opening of TABIMAE Proj