

Global PBL project for solving SDGs problem in Materials Engineering

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
Oct 15 ~Nov 12, 2022	Japan	Chulalongkorn University	<ul style="list-style-type: none"> Department of Materials Science and Engineering Undergraduate 2nd grade Undergraduate 3rd grade Undergraduate 4th grade 	(SIT) Students 16, Professor 1 (Chulalongkorn University) Students 17	SERIZAWA Ai (Department of Materials Science and Engineering) SHIMOJO Masayuki (Department of Materials Science and Engineering) ISHIZAKI Takahiro (Department of Materials Science and Engineering) YUMOTO Atsushi (Department of Materials Science and Engineering) LEE SO YOON (Department of Materials Science and Engineering)

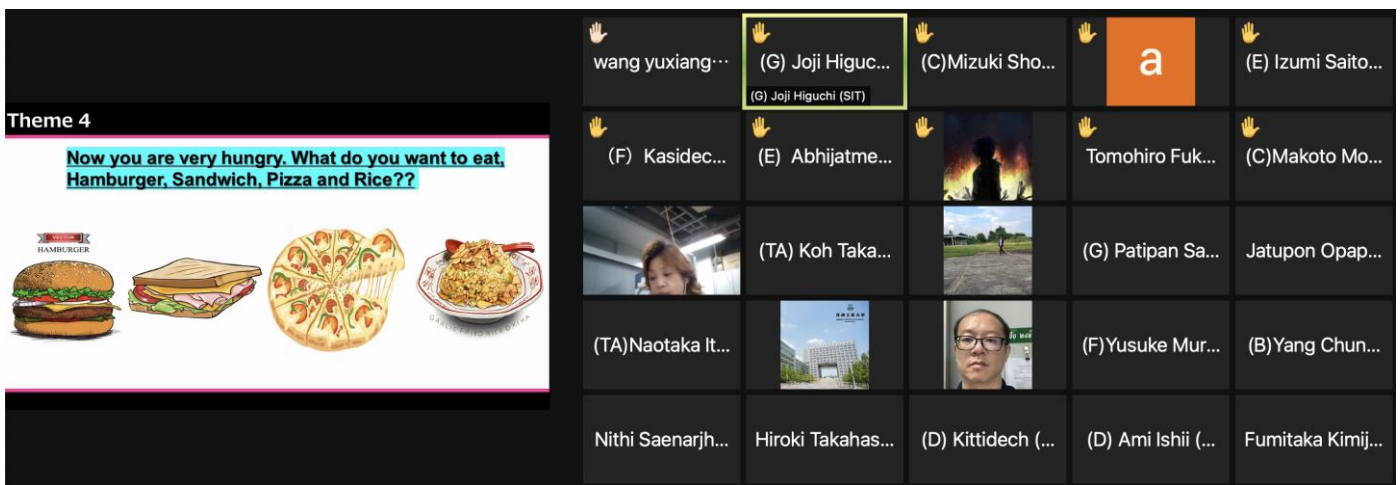


Image1 English conversation class

The global Project-based learning (PBL) program in the Department of Materials Science and Engineering has been conducted online for the first time with the Department of Metallurgical Engineering, Chulalongkorn University (CU), from October 15th to November 12th, 2021. The program aims to work with international students to solve problems and improve practical English and global communication skills. Our program emphasized collaboration with international students majoring in material engineering and discussing with a small group to increase the learning effect. The contents of the program included the Ice-breaking activity for cultural exchange, academic English classes, special lectures, and PBL discussion and presentations. The PBL topics were determined as 3D printing and nanomaterials, which are attracting more attention these days both in academia and industry. After the students received lectures regarding the PBL topic, each small group discussed and proposed a new technological idea from the fundamental knowledge of materials science and engineering.

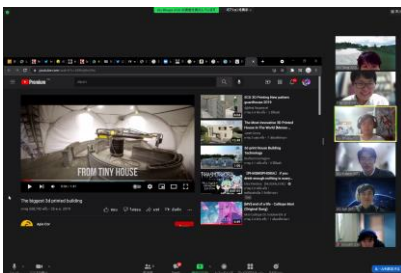


Image2 PBL group work 1

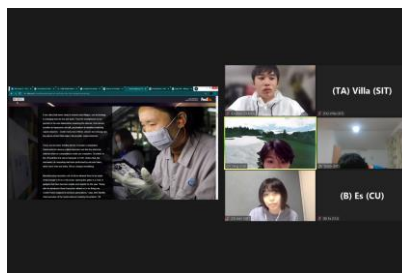


Image3 PBL group work 2



Image4 First presentation

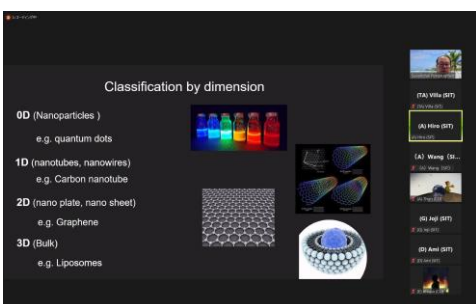


Image5 Final presentation 1

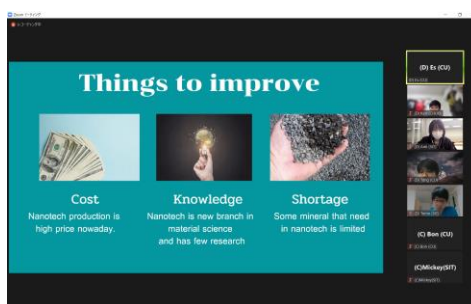


Image6 Final presentation 2

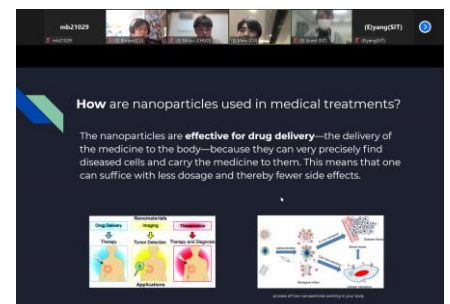


Image7 Final presentation 3