

International Internship on Electronic Engineering 2

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
December24,2020 ~January7,2021	Japan	King Mongkut's University of Technology Thonburi	Department of Electronic Engineering Department of Electrical Engineering Department of Engineering Science and Mechanics Department of Materials Science and Engineering Department of Applied Chemistry • Undergraduate 3rd grade • Undergraduate 4th grade	(SIT) Students 5, TA 1, Professor 3 (King Mongkut's University of Technology Thonburi) Students 7, TA 1, Professor 5	KOIKE Yoshikazu (Department of Electronic Engineering) YOKOI Hideki (Department of Electronic Engineering) KANOH Shinichiro (Department of Electronic Engineering)

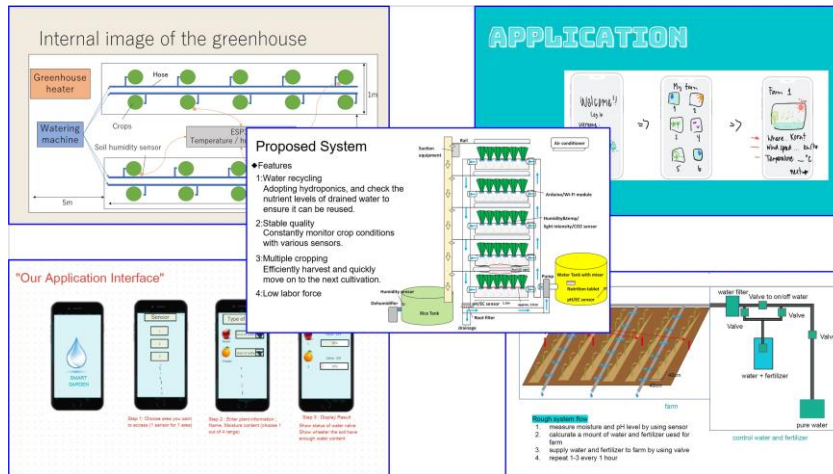


Image1 Final presentation

The PBL in the Electronic global internship is 6th this year. Until last year, the PBL program was held in both SIT and KMUTT, The participating students made the products by employing sensors, a micro-computer and so on. But this year, the program was on line by Zoom. The main contents in the program were discussion. The topic of the discussion is smart agriculture as the application of electronic engineering. Dr. Silupant, KMUTT associate professor, gave the lecture on smart agriculture in the class "Advanced engineering" to 3rd year students in our department by Zoom at 1st semester. The program was held in two periods, 1st period started at 24th December, 2020 in 3 days and 2nd period started at 5th January, 2021 in 3 days. The total duration of the program was 6 days and 5 students from SIT and 7 students from KUMTT participated. We divided 5 groups. After the students gave self-introduction and played Google jamboard as an icebreak, they discussed the problems in both Japanese and Thailand agriculture at 1st day. In the afternoon on 2nd day, the 1st presentation was held. In the 1st presentation, 4 professors attended and asked their contents. From 3rd day morning to 6th day morning, the students discussed their plan of the smart agriculture applications sufficiently while enjoying the quiz that the students gave each other about common favorites, habits and so on. They also enjoyed the origami workshop in the program. In 6th day, last day afternoon, the final presentation was held. Each team gave the presentation in 10 minutes. In the presentation, 8 professors attended and discussed. In the end of the PBL, I gave the questionnaire by Google form. According to the answers, all students increased the motivation of the foreign people communication. Among the comments, some students hoped to enjoy more entertainments.

Program schedule

Date	Time	Days	Contents	Comments
2020				
Dec. 24th	AM	1	Guidance, Ice break and team formation	
	PM		Workshop (1)	Prepare the midterm report
25th	AM	2	Workshop (2)	Prepare the midterm report
	PM		Lecture and Presentation	Report the agricultural problem
26th	AM	3	Workshop (3)	Discuss new idea and feasibility of new business
	PM		Workshop (4)	
2021				
Jan. 5th	AM	4	Workshop (5)	
	PM		Workshop (6)	
6th	AM	5	Workshop (7)	Prepare the midterm report
	PM		Workshop (8)	
7th	AM	6	Workshop (9)	
	PM		Final presentation, closing ceremony	Report new idea and feasibility of new business

Image2 PBL schedule

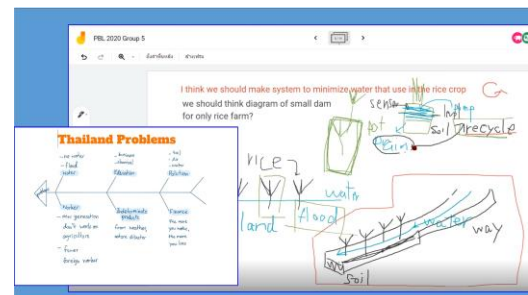
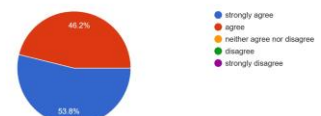


Image3 Google jamboard sketch



Image4 PBL attendee

The PBL inspired your communication with foreign people.



The PBL improved your English communication abilities.

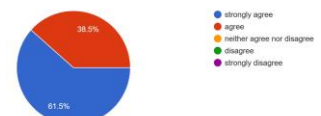


Image5 Questionnaire results