芝浦工業大學 SHIBAURA INSTITUTE OF TECHNOLOGY

AY2021Global PBL (Online)Performance report

Report on Japan-Malaysia-Thailand Joint Workshop on Arduino, TinkerCad Integrated

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
Feb21 ～Mar04, 2022	Japan	Universiti Tun Hussein Onn Malaysia King Mongkut's University of Technology Thonburi	・Department of Engineering Science and Mechanics ・Undergraduate 1st grade ・Undergraduate 2nd grade ・Undergraduate 3rd grade ・Undergraduate 4th grade ・Master 1st grade ・Master 2nd grade	(SIT) Students 7, Student Staff 3, Professor 4, Staff 2 (Universiti Tun Hussein Onn Malaysia) Students 11, Professor 1 (King Mongkut's University of Technology Thonburi) Students 3, Professor 1	NAGASAWA Sumito(Department of Engineering Science and Mechanics) YOSHIKUBO Hatsuko(Innovative Global Program) TACHIBANA Masahiko(Innovative Global Program) SAITO Hiroyasu(Department of Engineering Science and Mechanics) ISHIZAKI Hiroyuki(Malaysia Satellite Office)

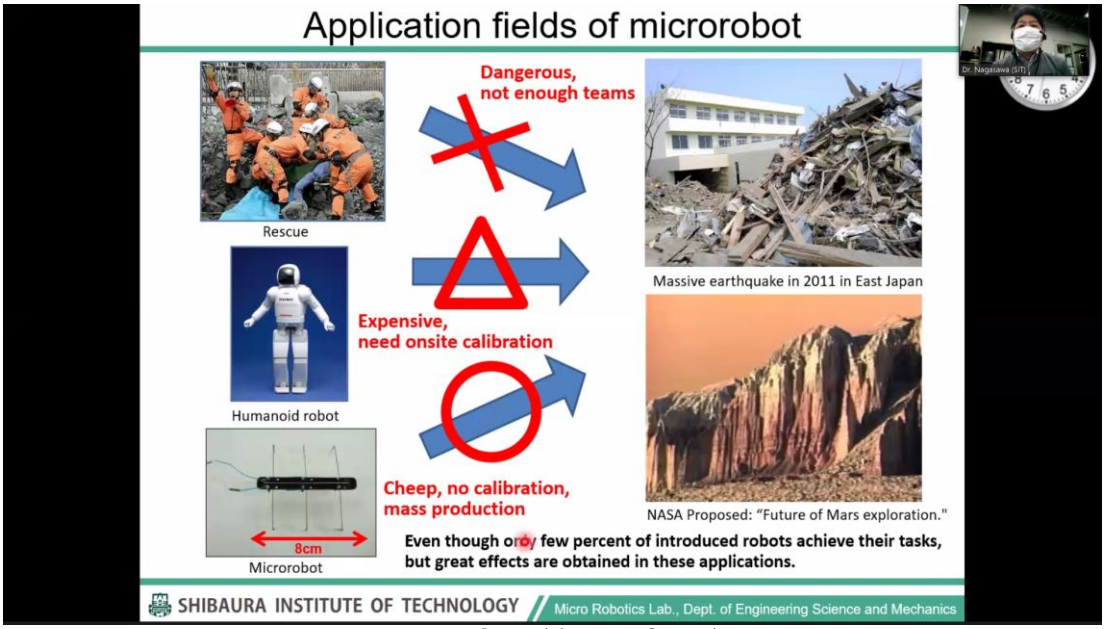

Image1 Lecture Scene1

It was a joint gPBL with our partner universities, UTHM in Malaysia and KMUTT in Thailand. Since all the international participants from Malaysia and Thailand were unable to travel due to COVID-19, the program was conducted online in a HyFlex manner similar to the previous year. The entire workshop was divided into two parts. The first phase consisted of team building, self-introduction practice, presentation preparation, and a cross-cultural introduction held in English. The second part was a prototyping session of robotics using Arduino and TinkerCad. Throughout the entire gPBL program, the students were able to acquire basic knowledge of embedded systems, experience group work discussion, and improve their presentation skills in English. In order to provide students with best possible study opportunities to replicate face-to-face experiences, optional lectures on Japanese robot culture and Japanese history with foreign cultures were also conducted. As a whole, the mutual cultural understanding and kindling of international curiosity has been promoted throughout Japan-Malaysia-Thai student-to-student exchanges. On the first and last day of the program, all participants were asked to fill out the Cross-Cultural Competency Assessment (MGUDS-S). We will measure and analyze the effects of this later.

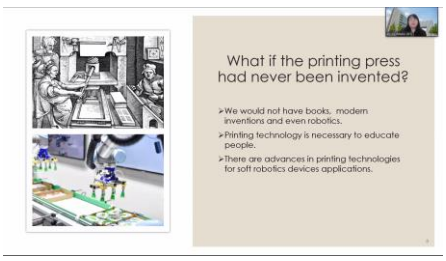

Image2 Lecture Scene2

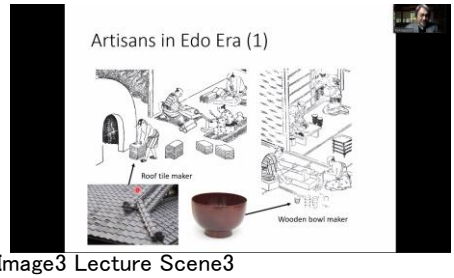

Image3 Lecture Scene3

Image4 Lecture Scene4

Image5 Lecture Scene5

Image6 Commemorative photograph

Image7 Closing Ceremony