Global PBL in Malaysia

Implementation period	Implementing country	SIT's implementation partner organization	Target students	participant	SIT instructor
2019/12/08 ～2019/12/17	Malaysia	Universiti Teknologi Malaysia	・Department of Engineering Science and Mechanics、Department of Mechanical Engineering、Functional Control Systems、Regional Environment Systems、Global Course of Engineering and Science、Department of Engineering Science and Mechanics、Department of Materials Science and Engineering、Department of Applied Chemistry、Department of Engineering Science and Mechanics ・Master 1st grade、Undergraduate 4th grade、Master 2nd grade	(SIT) Students 10, Professor 2 (Universiti Teknologi Malaysia) Students 23, Professor 1	maeda shingo(Department of Engineering Science and Mechanics)、hosoya naoki(Department of Engineering Science and Mechanics)

Image1

In order to conduct a research-style gPBL, we collaborated with the research group led by Prof. Ahmad Athif Mohd Faudzi of Universiti Teknologi Malaysia (UTM) for activities related to Dielectric Elastomer Actuator (DEA) and air-pressure actuators. The program participants consisted of undergraduate and graduate students from Maeda Lab. And Hosoya Lab. A Visiting Professor from Hindustan Institute of Technology and Science (India) and two of us gave lectures and discussed the frontier research. We had meetings with professors and administrators from UTM to contribute to buildup of a good relationship between UTM and SIT. As PBL activities, we physically absorbed multiple conductive powders onto elastomers to experiment DEA driving conditions and then discussed the results. Besides student participants from UTM and SIT presented their own researches with Q&A session for the purpose of deeper mutual understanding. As to air-pressure actuators, we learned the fabrication process that the UTM group specializes in and then discussed the future research development and the possibility of a research collaboration between us.

Image2

Image3

Image4

Image5

Image6 Professor Meeting

Image7