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.