芝浦工業大學 SHIBAURA INSTITUTE OF TECHNOLOGY

AY2025 Global PBL (Inbound) Performance Report

<<Graduate School>>Development of Innovative Skill Transfer System

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/09/07 ～2025/09/19	Japan	University of LAquila	・Global Course of Engineering and Science、Mechanical Engineering、Systems Engineering and Science ・Master 1st grade、Master 2nd grade	(SIT) Students 10, Professor 2 (University of LAquila) Students 12, Professor 3	ITO Kazuhisa()、TAKAGI Motoki()

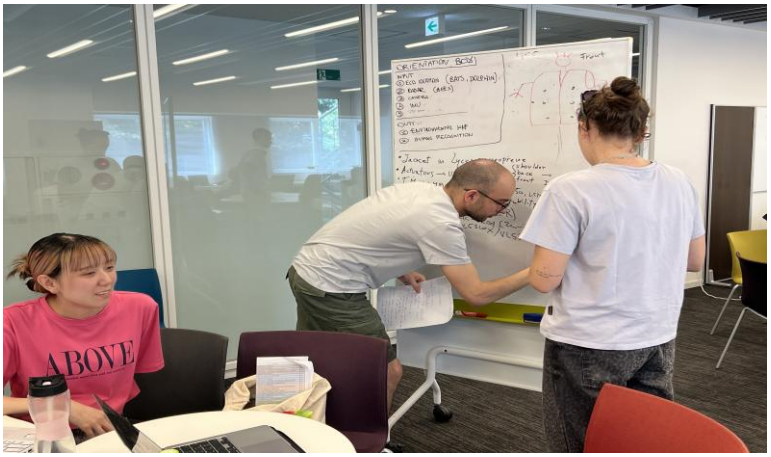

Image1 Snap shot 1

On Saturday, September 6, and Sunday, September 7, all participants arrived from Rome, and from Monday, September 8, to Friday, September 19, a total of 12 days, the Global PBL was held at our university. This time, 12 students from the University of L'Aquila (6 majoring in Mechanical Engineering, 4 in Information and Automation Engineering, and 2 in Electrical Engineering) and 10 students from our university (5 from Mechanical Engineering, 2 from Systems Science and Engineering, 1 from Mechanical Control Systems Engineering, and 2 from Life Science) participated, forming five mixed teams. The theme of this year was "Development of an Innovative Assistive Device to Improve People's Living and/or Working Conditions." The goal was to incorporate abilities and structures acquired by living organisms through evolution into new conceptual frameworks and propose novel assistive systems to address various needs, such as recovery of functions lost due to aging, accidents, or injuries, as well as physical burdens in industrial workplaces (this is traditionally revealed for the first time as a mission paper on the opening day of the gPBL).

After the icebreaking activities and group discussions on the first day, all participants visited the Tokyo Science Museums on the second day to find ideas and inspiration for the mission. They then attended lectures by professors from both the University of L'Aquila and SIT introducing cutting-edge researches, followed by an interim review on the morning of the fifth day, on September 12.

The teams presented proposals inspired by various biological phenomena—such as the flexibility and suction mechanisms of an octopus' s arms, bats' spatial recognition abilities, and cockroaches' mobility. Faculty members from both Italy and Japan provided conceptual feedback and alternative perspectives, leading to highly meaningful discussions.

On the final (tenth) day, each group gave a 15-minutes presentation followed by a 10-minutes Q&A session. Although some students struggled to answer questions, their determination to respond was evident. There were also an unusually large number of questions from the audience, making this year's session notable for the students' strong sense of initiative and engagement.

In their final reflections, many students commented that they had rarely had so many opportunities to think about how to communicate in English every day, and that the experience had made them aware of and learn many new things. It is our hope that the experience of managing and collaborating within a global team will serve as a valuable achievement for them.

Image2 Snap shot 2

Image3 Snap shot 3

Image4 Snap shot 4

Image5 Snap shot 5