

SIT-CIT GPBL for development of Energy efficient devices

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/09/01 ~2025/09/08	Japan	Chennai Institute of Technology	•Department of Mechanical Engineering, Department of Engineering Science and Mechanics, Innovative Global Program, Innovative Global Program, Fundamental Mechanical Engineering, Advanced Mechanical Engineering, Global Course of Engineering and Science •Undergraduate 2nd grade, Undergraduate 3rd grade, Undergraduate 4th grade, Master 1st grade, Master 2nd grade, Undergraduate 3rd grade, Undergraduate 2nd grade	(SIT) Students 6, Student Staff 2, Professor 2 (Chennai Institute of Technology) Students 10	RA.JAGOPALAN UMAMAHESWARAR(Iinnovativ e Global Program), FUTAI Nobuyuki(Mechanical Engineering Fundamental Mechanical Engineering)



CIT students' greeting of SIT professors



Welcome Pizza party

Image1 Students' greeting and Welcome party

Ten students from CIT in Chennai, India participated. The program ran from the morning of September 1st to the afternoon of the 8th. Two TAs from the Uma Laboratory assisted with program operations. From SIT, one second-year and one fourth-year male student from Kikaikino, one third-year student from Kikai, and two third-year students from IGP participated. An exchange student from CIT also participated. The CIT students received their initial orientation from Mr. Zhang of the International Affairs Office. Next, the TAs introduced the GPL content using a video created during the June project with NTUT. Since the CIT students were already familiar with Arduino programming and understood their objectives, the process proceeded very smoothly. The total of 16 CIT-SIT students were divided into five groups, with three students per team. Teams were randomly selected to include one SIT member per three students. Students were given time to brainstorm various ideas for gadgets that could help achieve SDG goals. The next day, students began working within their teams and headed to Akihabara to gather necessary project supplies. A welcome pizza party was held on the evening of Tuesday, the 2nd, attracting many participants. A similar party was held on the final day. Approximately 23 people, including members of the Uma Lab and host students, attended the party. Students participated in workshops and worked on creating various gadgets such as a Footstep Energy Generator, Flood Alert System, Sound Sense Assistive Tech, Dino Jump Game, Automatic Water Level Control System, and Smart Street Light Management System. Overall, the students devised a variety of useful and practical projects. On the final day, Friday, presentations by all teams began at 10:30 AM. The program concluded successfully. We plan to continue our collaboration with plants for holding an outbound event in Chennai focusing on a smart agriculture drone project. We are confident that all students not only gained knowledge from this workshop but also built strong relationships, including Indian students coming to SIT for short-term exchange programs and three students enrolling in graduate school this academic year.



Student's orientation



Students in Yukata



Students' visiting Anime movie



Student groups engaged in the project



Students' engaged in Basketball

Image2 Students' orientation and project engagement
Image3 Cultural events (Yukata, Anime movie and Basketball)