International Training of English and Introduction to Embedded Programming for Global Program

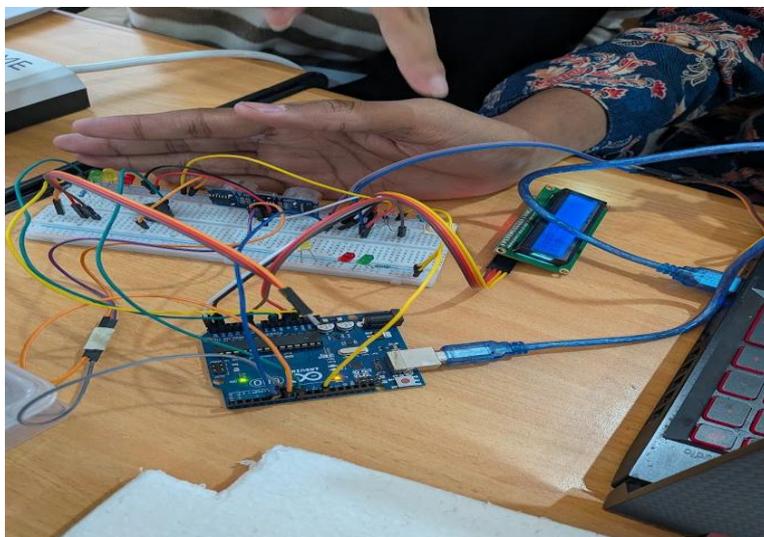| Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/08/17 ～2025/09/04	Indonesia	Institut Teknologi Sepuluh Nopember Universiti Teknologi Mara	・Department of Bioscience and Engineering、Department of Electronic Information Systems、Department of Machinery and Control Systems、Department of Planning, Architecture and Environmental Systems ・Undergraduate 1st grade	(SIT) Students 51, Student Staff 4, Professor 4, Staff 1 (Institut Teknologi Sepuluh Nopember) Students 40, Professor 5, Staff 2 (Universiti Teknologi Mara) Students 14, Student Staff 2, Professor 3	FUKUI Koji(Department of Bioscience & Engineering)、TAKAGI Motoki(Department of Bioscience & Engineering)、MIYOSHI Takumi(Department of Electronic Information Systems)、ITO Kazuhisa(Department of Machinery and Control Systems)

Image1 Arduino kit

This year, as in the previous year, the International Exchange Program (IEP) was held locally in collaboration with Institut Teknologi Sepuluh Nopember (ITS) in Surabaya, Indonesia. In addition to students from Shibaura Institute of Technology (SIT) and ITS, students from Universiti Teknologi MARA (UiTM) in Malaysia also participated onsite, creating a highly international learning environment. A total of 105 students and 6 teaching assistants (TAs) took part in the program.During the first half of the program, lectures and exercises covering guidance and the fundamentals of the C programming language were conducted. In the second half, students participated in lectures and hands-on exercises on input/output control of electronic circuits using Arduino microcontrollers programmed in C. All participants assembled and controlled electronic circuits using actual kits, and the use of TinkerCAD (AutoDesk), an online simulation tool, was also introduced. On the final day of the PBL, each group delivered a 6-minute presentation in English. The presentations were evaluated by all students, TAs, and faculty members based on three criteria: originality, quality of work, and presentation skills. The top three groups were commended for their outstanding performance. Through both practical technical training and international collaboration, the program provided a highly meaningful and valuable learning experience for all participants.

Image2 Final Presentation

Image3 Street