

# International Training of English and Introduction to Embedded Programming for International Course

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
March01 ~March06,2021	Japan	I-Shou University Institut Teknologi Sepuluh Nopember	<ul style="list-style-type: none"> <li>•Department of Bioscience and Engineering</li> <li>•Department of Electronic Information Systems</li> <li>•Department of Machinery and Control Systems</li> <li>•Department of Planning, Architecture and Environmental Systems</li> <li>•Undergraduate 1st grade</li> </ul>	(SIT) Students 31, TA 5, Professor 5 (I-Shou University) Students 31, Professor 1 (Institut Teknologi Sepuluh Nopember) Students 31, Professor 2	HANAFUSA Akihiko (Department of Bioscience & Engineering) FUKUI Koji (Department of Bioscience & Engineering) TAKAGI Motoki (Department of Bioscience & Engineering) MIYOSHI Takumi (Department of Electronic Information Systems) ICHIKAWA Manabu (Department of Architecture and Environment Systems)



Image1 State of room in SIT

Program was held from 1st to 6th of March. A total of 62 students participated via online from I-Shou University (Taiwan) and ITS (Indonesia). And 31 students from Shibaura Institute of Technology participated face-to-face or online.

From 1st to 2nd of March, classes and exercises on the basics of C language was held, and from 3rd to 4th of March, classes and exercises on input / output control to electronic circuits using Arduino microcontrollers by C language was held. Students who participated face-to-face and students who have their own kits assembled electronic circuits using the kits, and students who do not have the kits used the TinkerCAD web based simulation system provided by Autodesk Corp.

From the afternoon of 4th to 5th of March, 10 groups from A to J containing 2 to 3 students from each university were formed, and the system was developed using the Arduino kit. The system was configured through discussions, electronic circuits were assembled, and programs were developed in cooperation with group members.

On 6th of March, each group gave an 8-minute prepared presentation. All students and faculty members voted from the three perspectives of originality, completeness, and presentation, and the three highly evaluated groups were awarded.

A score of 40 points for C language exercises, 30 points for Arduino exercises, and 30 points for system creation and presentation by group work were evaluated, and 2 credits were certified to students who got 60 points or more, including students from I-Shou and ITS universities.



Image2 Discussion using Zoom