

## Basic Robotics Technology Experience & Understanding PBL in PNU

Implementation period	Implementing country	SIT's implementation partner organization	Target students	participant	SIT instructor
<b>2019/08/30 ~2019/09/10</b>	<b>Republic of Korea</b>	<b>Pusan National University University of Ulsan</b>	<ul style="list-style-type: none"> <li>• Department of Electrical Engineering</li> <li>• Undergraduate 2nd grade, Undergraduate 3rd grade</li> </ul>	(SIT) Students 8, TA 1, Professor 2 (Pusan National University) Students 10, Professor 2 (University of Ulsan) Professor 1	yoshimi takashi(Department of Electrical Engineering), andou yoshinobu(Department of Electrical Engineering)



Image1 Pusan National Univ. Campus

Basic Robotics Technology Experience and Understanding Global Project Based Learning (gPBL) was held from August 30 (Friday) to September 10 (Tuesday) at Measurement and Control Laboratory (Prof. Min Cheol Lee Lab.), Department of Mechanical Engineering, Pusan National University (PNU), Korea. This year, the following three topics relating robotics technology were prepared.

- (A) Communication and Motor Control,
- (B) 3D CAD and 3D Printing,
- and (C) Machine Learning.

Eight 2nd and 3rd year undergraduate students from the Department of Electrical Engineering, Shibaura Institute of Technology (SIT) and 10 graduate students from PNU are divided into three groups, and each group challenged to the given tasks of above three topics. These all three themes were a little more advanced and difficult for Japanese undergraduate students, but with the advice of Korean graduate students, they finally completed the three given tasks.

This 12-days program also includes some robotic laboratory tours in PNU, a visit to the Intelligent Systems Laboratory (Professor Kanghyun Jo Lab.), Department of Electrical Engineering, University of Ulsan (UoU), joining some research presentations and lectures in the robotics labs, and one day field trip in Pusan City. The participating SIT students were able to interact with many Korean undergraduate and graduate students, and they could spend meaningful time by joining this gPBL program.



Image2 Field Trip



Image3 3D Printer Works



Image4 Lecture by Prof. Yoshimi



Image5 Univ. of Ulsan Campus



Image6 gPBL Closing Ceremony



Image7 Stone Grilled Bibimbap