芝浦工業大學 SHIBAURA INSTITUTE OF TECHNOLOGY

2019年度グローバルPBL（受入）実施報告

Joint International Workshop on Mechanical Engineering between the NTUT and SIT in 2019, Tokyo

Implementation period	Implementing country	SIT's implementation partner organization	Target students	participant	SIT instructor
2019/05/27 ～2019/06/02	Japan	National Taipei University of Technology	・Department of Mechanical Engineering、Mechanical Engineering ・Undergraduate 4th grade、Master 1st	(SIT) Students 16 (National Taipei University of Technology) Students 11, Professor	SHIRAI Katsuaki, SUWA Yoshihide (Department of Mechanical Engineering)

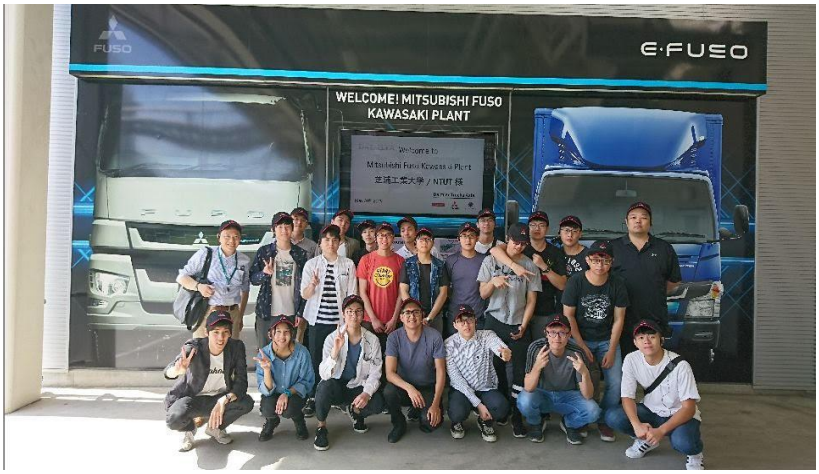

Image1 Factory tour Photo1

The purpose of this program is to bring together all PBL participants including NTUT students to provide in intensive, simulated collaborative learning experience within the field of Mechanical Engineering. The NTUT students were assigned to four laboratories; Fluid Power and Fluid Application Laboratory, Thermal Fluid Science and Engineering Laboratory, Radiation Transfer Laboratory, and Cellular Devices Lab.

A special lecture by Dr. Ti Lin, Professor from NTUT specializes in air conditioning and indoor environmental control, was very informative beneficial, and many students at SIT showed interest in learning the thermal cycle, which is different from that of internal combustion engines. Usually these technologies are often categorized in the field of architecture, a field that is rarely studied in mechanical engineering field in Japan.

Besides working on the research, our faculty members presented joint lectures and all participants visited two companies(Mitsubishi Fuso Kawasaki plant (joint venture with Germany's Daimler) and Obayashi Corporation Technical Research Institute.) across various industry sectors including construction and manufacturing.

At the Obayashi Corporation Technical Research Institute, we were able to see the most advanced technologies such as energy-saving air conditioning technology, seismic isolation and vibration control technology, and construction robots. During a tour of the truck assembly line at the Mitsubishi, we were able to felt a positive diverse and collaborative working environment.

Image2 Factory tour Photo2

Image3 Class

Image4 Presentation

Image5 Workshop