

Joint Summer Workshop on Indoor/Outdoor Air Environment Engineering between the NTUT and SIT in Taipei, 2025

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2025/10/29 ~2025/11/05	Taiwan	National Taipei University of Technology	•Department of Mechanical Engineering, Department of Engineering Science and Mechanics, Innovative Global Program, Innovative Global Program, Global Course of Engineering and Science, Mechanical Engineering •Undergraduate 3rd grade, Undergraduate 4th grade, Master 1st grade, Master 2nd grade, Undergraduate 4th grade	(SIT) Students 12, Student Staff 1, Professor 1 (National Taipei University of Technology) Students 9, Professor 1	RAJAGOPALAN UMAMAHESWARI(Innovative Global Program), FUTAI Nobuyuki(Mechanical Engineering Fundamental Mechanical Engineering)



Image1 Group Photo

Directed by Prof. Ti Lin at the Center for Research and Development of Clean Technology, School of Mechanical and Electrical Engineering, National Taipei University of Technology (NTUT), five projects were conducted by two to three students per theme: (1) Outdoor Air pollution distribution from exhaust, (2) FOUP purge design optimization, (3) Thermal Management of Power Equipment Rooms, (4) Filter scan robot control, and (5) FOUP RH affected by EFEM airflow deflection at door opened condition. The results of these projects were presented in a presentation format. Additionally, a tour of NTUT's 3D Technology Laboratory, wind power generator test facility, and chemical filter test facility, and a visit of a clean backyard facilities of Industrial Technology Research Institute (ITRI) were conducted.



Image2 Outdoor Air pollution



Image3 FOUP purge design



Image4 Power Room Thermal Management



Image5 Filter scan robot control



Image6 Open FOUP RH measurement