

Off-campus teaching activities in local industries

The University has been developing with the vision of “Chiayi glorified, nationwide-known, and worldwide-recognised”. Based on this, the Department configures and implements its curricula with “local linking” in nature. Far East Machinery Industry Co., Ltd. Group (FEMCO) founded in 1949, the most historic, well-known machinery company in Chiayi, has many attributes accommodated by the Department. As a comprehensive steel manufacturing enterprise, its business scope includes steel pipe manufacturing, public works construction, machine tools, and golf clubs. It provides diversified products and services to a wide range of international customers. The company continues to promote the development of industrial innovation and technology, and in 2022, it renovated the 60-year-old factory into the "Rotating Smart Manufacturing - Far East Machinery Memorial Museum". It won the global 2022 iF Design Award, the first machinery museum in Taiwan that won the iF Design Award for architecture and interior design. It witnesses the transformation and development of Taiwan's machinery industry and demonstrates the company's efforts to continue to promote the development of industrial innovation and technology, to be deeply rooted in the local area and to span the global market.



Professor Ting arranged an off-campus teaching activity to Far East Machinery Memorial Museum for the 31 undergraduates who took the "Solar Engineering" course. The students learned about the development and technological applications of the machinery industry. The museum exhibited many ancient and cutting-edge mechanical facilities. Hence the students learned how the company rooted in the Chiayi area and the development history of the machinery industry. The students also visited the production line to experience the application of AR/AI/carbon-saving techniques in machine tools.



FATEK (Factory Automation Technology Co., Ltd) is a machine tool manufacturer of FEMCO Group with the expertise of innovating and valuing machine tools with cutting edge technologies. An off-campus teaching tour to FATEK was organized by Professor Ting and led by the Head of Department, Professor Lin, including 23 undergraduate and postgraduate participants from the courses of control engineering practice, project study, and advanced mold design and manufacturing.

The participants learned about the development and production environment of machine tools, as well as the application of intelligence-related technologies. FATEK inherits FEMCO's 75 years of machine-tool manufacturing experience



and expands the products to fields such as automobiles, aerospace, and petrochemical industries. It supplies not only machine tools but also a total solution of production automation. FATEK is a pioneer in the industry in the utilization of 3D modular management system for quickly integrating drawings, materials and processes to satisfy customer's diversified demands.