

Learning and Applying Mechanical Engineering Talent Through the Lens of Taiwan's Precision Machinery Development

— An Introduction to the Machine Tool Industry and Trends in Smart Manufacturing

On March 11, 2026, our department hosted a distinguished guest lecture organized by Professor Chao Yung-Ching. The invited speaker was Mr. Gao Zhi-Zhong, Director of the Project Management Division at the Precision Machinery Research and Development Center (PMC), whose talk was titled "Learning and Applying Mechanical Engineering Talent Through the Lens of Taiwan's Precision Machinery Development — An Introduction to the Machine Tool Industry and Trends in Smart Manufacturing."

Director Gao opened by tracing the development of Taiwan's precision machinery and machine tool industry and its competitive strengths in the global market, followed by an in-depth analysis of the transformational challenges the sector currently faces. He then drew on real-world cases to illustrate the latest trends in smart manufacturing, digital transformation, and automation, underscoring the central role of cross-disciplinary integration and data-driven applications in modern industry.

On the topic of talent development, Director Gao addressed the professional skills and workplace competencies that the industry expects of mechanical engineering graduates. He encouraged students to strengthen their hands-on capabilities and to cultivate systems-thinking and problem-solving skills in order to enhance their future competitiveness. He also responded to student questions on career development and skill-building, offering guidance that deepened participants' understanding of the industry's current landscape and future direction.

The lecture was substantive and informative, effectively broadening students' knowledge of the machine tool industry and smart manufacturing, while helping them establish clearer goals for career planning and academic development. The event was well received with positive overall outcomes.

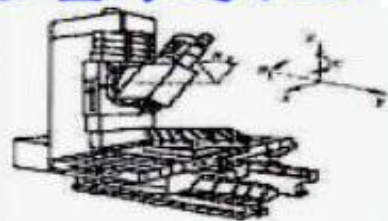


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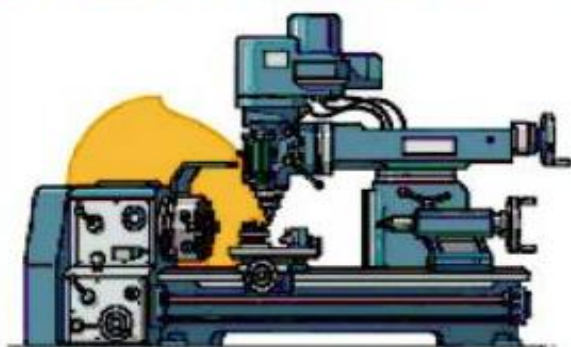
機械與能源工程學系

專題演講

工具機產業簡介及智慧化
發展趨勢



演講者 -
財團法人精密機械研究發展
中心
計畫企管室
高志忠主任



日期: 115/03/11 (三)

時間: 13:30~15:20

地點: 機械系系館101視聽教室