

SDG REPORT

Rajamangala University of Technology
Phra Nakhon 2023

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QUALITY
EDUCATION

- RMUTP Training on Automated Production Design with Virtual Simulation
- "Corrosion and Wear Control" Training for Power and Oil & Gas Industries
- RMUTP Hosts Mahidol Wittayanusorn School, Showcasing Innovations for Future Skills





QUALITY EDUCATION

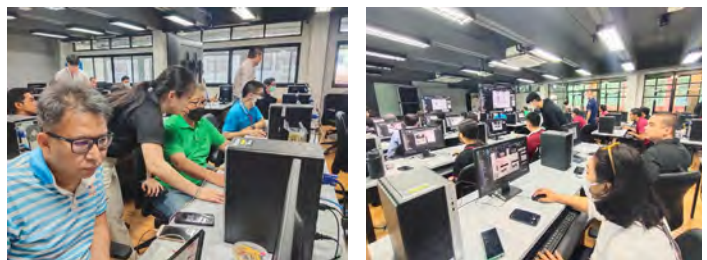


RMUTP Organizes Training on Automated Production Design Using Virtual Simulation Software

The Digital Interdisciplinary and Robotics Institute, Rajamangala University of Technology Phra Nakhon, organized a training course titled “Automated Production Design Using Robots and Virtual Simulation Software. Asst. Prof. Dr. Prin Boonkanit, Vice President for Administrative, Research, and Innovation Development, presided over the opening of the training session, which was conducted online. The objective was to impart knowledge and understanding of the structure and functioning of automated production processes using robots through virtual simulation software and to understand software commands, allowing participants to accurately apply 3D model simulations.



The training was honored by the participation of Mr. Prawit Juntrong - Virtual Manufacturing (Thailand) Co.,Ltd, as a speaker. Topics covered included learning the basic commands of virtual simulation software, fundamental 3D layout design, designing automated production processes in 3D format, simulating the operation of automated machinery in conjunction with industrial robots, and creating automated product arrangement processes using industrial robots. The training was attended by over 100 participants, both onsite and online, from July 6 to 7, 2023, at The Digital Interdisciplinary and Robotics Institute, Rajamangala University of Technology Phra Nakhon, North Bangkok Campus.



Training Program: “Case Studies on Corrosion and Wear Control in Power Plants and Oil & Gas Industries”

Dr. Jirasak Tharajak, Dean of the Faculty of Science and Technology, presided over the opening of the training course titled “Case Studies in Corrosion and Wear Control in Power Plants and the Oil and Gas Industry.” Faculty members and staff from the Department of Industrial Materials Science welcomed the participants. The training took place from February 25 to 27, 2023, at the Faculty of Science and Technology, Rajamangala University of Technology Phra Nakhon. The course content included the following topics:

Basic knowledge of corrosion and wear





Case studies on corrosion and wear in power plants and the oil and gas industry

Processes for preventing, inspecting, and maintaining corrosion and wear in industries, such as Cathodic Protection, NDT, Acoustic Emission, Thermoscan, Ultrasonic Testing, and Borescope.

The training was conducted by a team of experienced speakers:

- Asst. Prof. Dr.Napachat Tareelap, KMUTT
- Asst. Prof. Dr.Tippaban Palathai, KMUTT
- Dr.Noppakun Sanpo, PTTGC
- Mr.Sarun Choomchaiyo,Aurecon
- Dr.Jirasak Tharajak, RMUTP
- Dr.Phumirat Nawarat, RMUTP

This project aimed to develop material innovation for economic and green industrial potential.



RMUTP Welcomes Mahidol Wittayanusorn School, Showcasing Innovations and Technologies to Promote Future Skills

The Digital Interdisciplinary and Robotics Institute at Rajamangala University of Technology Phra Nakhon (RMUTP) opened its doors to students from Mahidol Wittayanusorn School for a study visit. Asst. Prof. Dr.Prin Boonkanit, Vice President for Administrative, Research, and Innovation Development, presided over the welcoming ceremony. The event featured demonstrations of various equipment, such as virtual reality (VR) for welding, human-robot collaboration laboratories (COBOT), reverse engineering, and vehicles equipped with teaching tools for Industry 4.0 systems. The students also learned hands-on skills and direct experiences in technology, robotics innovation, and artificial intelligence (AI) on June 30, 2023, at The Digital Interdisciplinary and Robotics Institute, North Bangkok Campus.

The Digital Interdisciplinary and Robotics Institute is a central unit for promoting new era skills and providing services to external organizations and industries.

