

PRESS INFORMATION

Bosch Rexroth and UMP collaborate on automation engineering development

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Upskilling on Internet of Things (IoT) and advanced manufacturing skills

- **Bosch Rexroth sets up industry-driven curriculum in Malaysia**
- **Academia-industry partnership to drive adoption of innovative technologies**
- **New UMP - Bosch Rexroth advanced training centre launched**

Pekan, 3 MAR 2023: Universiti Malaysia Pahang (UMP) entered into a partnership with Bosch Rexroth Sdn Bhd (Bosch Rexroth) in curriculum development activities to strengthen university-industry collaboration.

The collaboration will involve industrial training, student exchange, offering improved learning courses and making certification-based industrial training modules from Germany as a reference.

The ceremony saw the UMP Vice-Chancellor, Professor Dato' Ts. Dr. Yuserie Zainuddin exchange memorandum of understanding (MoU) documents with Bosch Rexroth Malaysia Chief Executive Officer, Darren Chan Chon Hoe.

“Industry 4.0 is a strategic pillar for us, and it will fundamentally change the way we manufacture our products and the way we collaborate with machines. For us, Industry 4.0 is not about replacing existing workers with robots and computers. It is about building talents and upskilling to fit for the digital economy - driving efficiency and competitiveness,” said Darren Chan, CEO Bosch Rexroth Malaysia.

According to Professor Dato' Ts. Dr. Yuserie, this collaboration through Bosch Rexroth Academy in Germany involves the placement of hands-on students with the use of equipment in Malaysia and abroad as well as certification programmes for students especially in the Bachelor of Technology, Bachelor of Engineering Technology and Bachelor of Engineering programmes.

“UMP, as an MTUN university characterised by technology and engineering, has always aspired to become more competitive globally. We sincerely welcome the collaboration networking with industry partners in developing agreed programmes and activities for mutual benefit,” he said.

“This strategic collaboration aligns with the UMP Strategic Plan 2021-2025 in producing holistic graduates and local talents with comprehensive training modules recognised around the world and adapted to address the challenges of the IR4.0 industry,” he said.

He added that UMP students would gain hands-on experience in industrial automation equipment, which would add value to UMP graduates, especially in today's competitive job market. UMP hopes to explore other collaborations in the long term, especially in the areas of competencies and student development programmes, as well as broader reskilling and upskilling.”

“UMP Bosch Rexroth Academy is developed with three main pillars: to achieve the TVET Aspiration (MTUN), develop the IR4.0 Hi-Tech Advanced Training Centre and support the IR4.0 National Agenda. Through these pillars, UMP students can gain hands-on experience in the most advanced automation equipment from the industry. In supporting the aspirations of MTUN TVET,

PRESS INFORMATION

UMP Rexroth Bosch Academy serves as a platform for curriculum programmes based on industry needs,” he said.

UMP Rexroth Bosch Academy is also an advanced training centre based on Industrial Revolution 4.0 (IR4.0) technology. UMP facility has been equipped with the necessary training equipment from Bosch Rexroth’s training academy – with its syllabus and modules tailored to the local market. Bosch Rexroth has developed the mMS4.0 for universities and educational institutions – a training system for Industry 4.0, with which content can be taught practically. It incorporates all of the functions of a complete production system, including logistics. More cells can be flexibly added to the system, such as a 6-axis robot will be taught along the mMS4.0. The students program automation functions in both common languages such as MS Excel and high-level languages, uses the RFID technology to implement workpiece-led production, and link the production data with enterprise resource planning (ERP) and manufacturing execution system (MES). The mMS4.0 training system is also suitable for learning basic skills in mechatronics and drive & control technology.

The certification programmes offered by the centre will enhance individual excellence in providing the IR4.0 workforce and extend this opportunity not only to the UMP community but to the entire country. Through this academy, UMP is also instrumental in driving IR4.0 migration among industries, especially on the East Coast of Malaysia.

Basic Information Bosch Rexroth

As one of the world’s leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 31,000 associates generated sales revenue of around 6.2 billion euros in 2021.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 420,000 associates worldwide (as of December 31, 2022). According to preliminary figures, the company generated sales of 88.4 billion euros in 2022. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group’s strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is “Invented for life.” The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch’s global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company’s future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 85,000 associates in research and development, of which nearly 44,000 are software engineers.

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