Experts

UMP–Bosch Rexroth Academy

3 April 2023

Universiti Malaysia Pahang (UMP)–Bosch Rexroth Academy is a unique collaboration between Bosch Rexroth, the world leader in control and drive industries, and Universiti Malaysia Pahang aimed at accelerating the adoption of Industry 4.0 technologies, such as the internet of things, artificial intelligence, and big data analytics. The Academy provides a platform for businesses and

universities to work together on research and development projects that will help drive the industry's digital transformation.

One of the key advantages of UMP–Bosch Rexroth Academy is that it provides businesses with access to cutting-edge research and development in Industry 4.0 technologies. By working with academic experts, businesses can tap into the latest advancements in these technologies, which can help improve their competitiveness and growth. For example, researchers at the Academy can help businesses to develop and test new technologies, such as predictive maintenance systems, that can increase efficiency and reduce downtime in manufacturing processes.

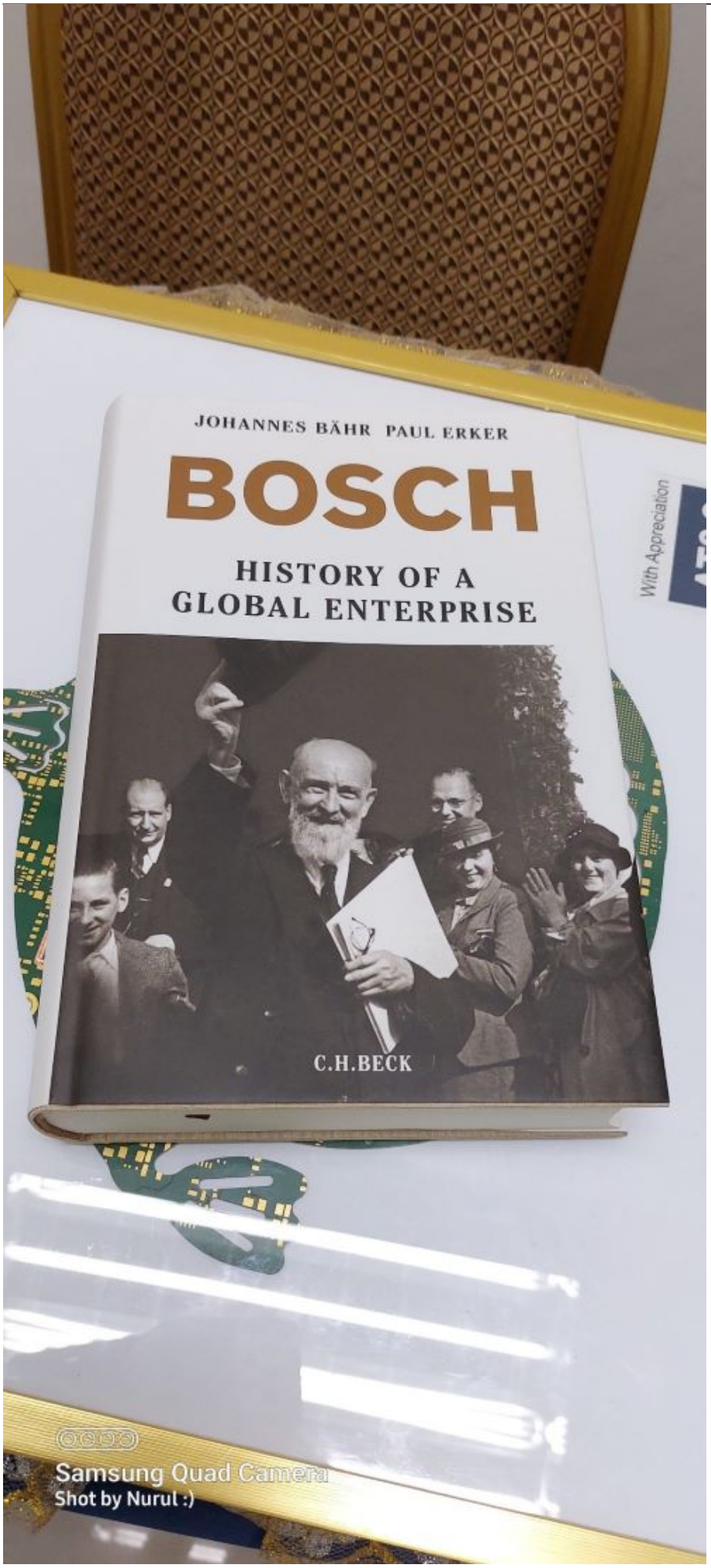
In addition to driving technological advancements, the UMP–Bosch Rexroth Academy provides students with valuable hands-on experience in developing and implementing Industry 4.0 technologies. By working with businesses on real-world projects, students can gain practical experience in applying their academic knowledge to solve industry problems, which will help them develop a deeper understanding of the challenges businesses face in this field.

UMP–Bosch Rexroth Academy looks forward to fostering close collaboration between businesses and universities so that the research and development projects at the Academy are aligned with the practical needs of the industry. This can be achieved through initiatives such as regular meetings between industry partners and academic researchers and by providing funding for joint projects focused on real-world problems.

UMP–Bosch Rexroth Academy leans on three main pillars: to offer top-notch IR 4.0 capacity building programmes, Hi-Tech IR 4.0 Training Centre, and National IR 4.0 Ecosystem.

Through capacity-building programmes, UMP–Bosch Rexroth Academy serves as a platform for industry-driven curricula in UMP. These accredited programmes include Bachelor of Technology, Bachelor of Engineering Technology and Bachelor of Engineering. Through this pillar, UMP students are able to gain first-hand experience with industrial automation equipment. We strongly believe Bosch Rexroth Academy competency certification on IR 4.0 adds value to UMP graduates, especially in today's competitive job market.

UMP–Bosch Rexroth Academy is a Hi-Tech IR 4.0 Training Centre. Via the Centre, UMP staff and students have access to Bosch Rexroth Technology. As a frontier and a leading control and drive industry player, Bosch Rexroth certainly has a lot to offer, especially in the cutting-edge manufacturing industry. Via the Competency certification programmes in the pipeline, we look forward to maximising the potential and excellence of individuals in the IR 4.0 workforce through reskilling and upskilling opportunities. We hope to extend these opportunities not only to UMP communities but to the whole nation.


JOHANNES BÄHR PAUL ERKER
BOSCH
HISTORY OF A
GLOBAL ENTERPRISE
C.H.BECK
With Appreciation
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The final and the most important pillar of the Academy is the UMP–Bosch Rexroth Academy plays a vital role in supporting the National IR 4.0 Agenda. Via this Academy, we look forward to driving IR4.0 migration among industries, especially on the East Coast of Malaysia, which could accelerate Malaysia's digital transformation, including building a skilled IR 4.0-ready workforce. By supplementing our ongoing programme with UMP–Bosch Rexroth Academy content and Bosch industry insights, students get the opportunity to strengthen their skills and enhance the availability of IR 4.0-ready talent in the country.

Today, 26 Bachelor of Technology students received their certifications in PLC Programming with IDE IndraWorks Engineering and Bosch Modular Mechatronics System Basic Application.

UMP looks forward to forging a long-term partnership and collaboration, particularly in the competency and student development programme, reskilling and upskilling, and executive programmes with your esteemed organisations.

UMP–Bosch Rexroth Academy can potentially drive the digital transformation of the industry. By providing businesses with access to cutting-edge research and development in Industry 4.0 technologies and by educating the next generation of workers and leaders in this field, the Centre has the potential to play a critical role in bridging the gap between academic research and practical industry needs. By doing so, the Industry-Academia 4.0 Centre can help drive the wider adoption of Industry 4.0 technologies, which will have far-reaching benefits for businesses, workers, and society.

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