



**UMP Focuses on Improving the Quality of Higher**



Universiti Malaysia Pahang (UMP) will continue to strengthen efforts in developing and expanding higher education and Vocational Education and Training (TVET). According to the Vice-Chancellor of UMP, Professor Ir. Dr. Wan Azhar, cooperation between UMP and the domestic and foreign industries to further enhance the technical capabilities of graduates has formulated the UMP Strategic Plan 2021-2025 by focusing on elements of exploring new knowledge, internationalization, and entrepreneurship of graduates in related fields to improve the quality of education globally. 'We aim to make UMP as one of the young universities that can play an important role in improving the country's technical capabilities'.

UMP ranks 133 in Asia in the Quacquarelli Symonds (QS) World University Rankings: Asia 2021 rankings announced recently. Quacquarelli Symonds recently in recognition of UMP's role and efforts in developing and empowering education at international levels. This achievement has listed UMP as ranked 21 percent of the best universities in Asia and ranked 10th in Learning (IPTA) in Malaysia.

*By Puan Mimi Rabita Abd Wahit, Public Relations Unit, Office Of The Vice-Chancellor*

## **A Global Outreach by Two Malaysians: Success Story**



Universiti Malaysia Pahang (UMP) received the Qatar National Research Fund (QNRF) worth RM350,000 from a to Ir. Dr. Kumaran Kadirgama and Associate Professor Ts. Ir. Dr. Wan Sharuzi Wan Harun. The grant is a collaboration between UMP, HINAS Corporation, and Rutgers University for the project duration 2016 - 2020. The achievement of the project shows that UMP is one of the best other universities in the world. The project is a combination of engineering and engineering technology. Two main elements are needed for femoral stems with additive manufacturing. One element is needed for theory, and another is the skill of additive manufacturing. The importance of engineering technology. The combination of skill and theory is essential for current engineers. The journey of the project is a good planning, management, and teamwork. The learning process from the grant can be divided into three main factors: theory, management.

*By Associate Professor Ts. Ir. Dr. Kumaran Kadirgama and Associate Professor Ts. Ir. Dr. Wan Sharuzi Wan Harun*

## **Nanocoolant Alternative for Cooling Elements by UMP**



The Advanced Nano Lab for Coolant and Lubricant in the Faculty of Mechanical and Automotive Engineering at Universiti Malaysia Pahang (UMP) has developed a new coolant system. Associate Professor Ts. Ir. Dr. Kumaran Kadirgama and Associate Professor Ts. Dr. Devarajan Ramasamy came up with this innovative cooling system. Nanocellulose is an abundant organic material from plants that reduces the use of harmful coolants in various applications. This coolant is a way to overcome heating problems in manufacturing, automotive, and heating parts in electric vehicles. This coolant can reduce the use of harmful coolants and cutting tools by around 25%. In the 2018 International Invention, Innovation & Technology Exhibition (ITEX), the product won platinum and gold medals in the British Invention Show 2018. The work regarding this product has been published in various international conferences. The Advanced Nano Lab for Coolant and Lubricant has managed to secure RM 800,000 from national funding from the Automotive Excellence Center (AEC) of Universiti Malaysia Pahang to solve the heating problem and expand the application of the coolant in components machining. The current research will focus on the new advancement of nanomaterials to solve the heating problem in the automotive sectors. It shows that Universiti Malaysia Pahang (UMP) can compete with other universities around the world.

*Credit to Pekan Review*

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