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[The UMP Edge 2/2021](#)



**6 UMP subjects listed in QS World 2021**

Alhamdulillah  
**Congratulations**

To UMP for Being Ranked in  
**2021 QS World University Rankings By Subject**



PEKAN, 4 March 2021 - Six Universiti Malaysia Pahang (UMP) subjects are listed in the QS World University Rankings by Subject 2021. The university's field strengthened its position when it moved to the 358th best in the world compared to 386th in last year's ranking. This ranking edition also saw the subjects of Chemical Engineering ranked at 250th best in the world and 7th in Malaysia, Engineering-Mechanical, Aeronautical & Manufacturing ranked at 400th best in the world and 9th in Malaysia, and Mechanical Engineering, Aeronautics & Manufacturing was ranked at 351-400th best in the world and 6th in Malaysia. The other two subjects listed are Pure Science (Chemistry) ranked at 550th best in the world and 6th in Malaysia and Pure Science (Materials Science) ranked at 351-400th best in the world and 6th in Malaysia. The UMP Vice-Chancellor, Professor Ir. Dr. Wan Azhar Wan Yusoff said the field of Engineering & Technology is a key area of focus for the university. "This achievement highlights the excellence in teaching and learning (T&L) at UMP which always focuses on various technical subjects to develop human capital with high level technical skills. "It is also in line with the UMP Strategic Plan 2021-2025 in leading the high quality technical education, Training (TVET) and also realising the university's aspirations towards the best technology university by 2050," he said. Professor Ts. Dr. Mohd Rosli Hainin said this year's assessment also showed improvements in all four indicators: research, reputation, citations and H-Index. "This benchmark allows UMP as one of the technical universities in the Malaysian Technical University Group to showcase the university's achievements from various perspectives.

*By: Mimi Rabita Abdul Wahit, Corporate Communications Unit, The Office of The Vice-Chancellor*

## EBAC and GyVer solutions to problematic



KUANTAN, 22 December 2020 - Many consider coal waste and cow dung to be worthless and often associated as the so-called waste. However, it is different for a group of researchers from Universiti Malaysia Pahang (UMP) who successfully conducted the waste-based Bottom Ash Column (EBAC) and GyVer to solve problematic soil structure. According to the project leader, Associate Professor Dr. Mohd. Yusoff Yusoff, an Associate Professor in the Department of Irrigation and Drainage Engineering UMP, EBAC is a method of strengthening the soil using waste from coal bottom ash that is widely used to generate electricity. GyVer is a method of soil stabilisation using waste products from cow dung. "Both methods use a sustainable construction approach to reduce the amount of waste dumping by utilising all these materials. "The idea of producing EBAC started in 2010 through the observation of high quality soil. However, it is no effort to adopt this material which causes this waste to be dumped at landfills so that it requires high cost and large area for disposal. Through the results of a literature review related to the main material of the study, namely cow dung, which shows the potential of this material, said. This research also received the cooperation of several parties such as Asahitechno Co. Ltd. (Japan), Hokoku Engineering Co. Ltd. (Japan), Department of Irrigation and Drainage Pahang, Globallab Engineering Sdn. Bhd., Malakoff Corporation Berhad and Tencas Engineering Sdn. Bhd. GyVer won a gold medal at a gold medal at the British Invention Show (BIS) 2018, Malaysia Technology Expo (MTE) 2018 and the International Conference on Innovation and Technology of Higher Learning (PECIPTA'17). Meanwhile, GyVer research won a gold medal in F

*By: Nor Salwana Mohd Idris, Corporate Communications Unit, The Office of The Vice-Chancellor*

## **FTKEE lecturers develop digital center**



PEKAN, 25 January 2021 - The role of universities today is more challenging. When the Institutions of Higher Learning (IHL) face the needs of the industry in line with the Industrial Revolution (IR4.0), they also face the outbreak of COVID-19 pandemic. This has led to a paradigm shift for the university to review its role in setting new norms for facing the current technological advancement. At the Faculty of Technology and Electronic Engineering (FTKEE), Associate Professor Dr. Hamdan Daniyal, academic staff also faced with new norms and digital transformation in teaching and learning (T&L). Since May 2020 until November 2020, FTKEE had produced more than 100 videos as a result of the commitment given by the staff during MCO 2020. "The knowledge and skills of video recording, creating animation, screen contact, and preparing questions in Moodle and Google Form are only a fraction in our journey since March 2020. "The 80% of our academic staff," he said. According to Associate Professor Dr. Hamdan, it is still a long way to go. "Despite the many video production, UMP targets to provide a meaningful learning environment. "Videos play a big role and the learning process demands a lot of preparation importantly from the students," he said. Meanwhile, the Centre of Instructional Resources & e-Learning (CIREL) has also been in preparation to expose them with the use of digital technology.

***By: Mimi Rabita Abdul Wahit, Corporate Communications Unit, The Office of The V***



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# The UMP Edge

Universiti Malaysia Pahang

University Ranking Newsletter

Alhamdulillah  
**Congratulations**



To UMP for Being Ranked in  
**2021 QS World University Rankings By Subject**



Subject	Ranking
Engineering & Technology	358
Engineering-Chemical	201-250
Engineering-Mechanical Aeronautical & Manufacturing	351-400
Chemistry	501-550
Materials Science	351-400
Engineering-Electrical & Electronic	351-400

