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The UMP E

Universiti Malaysia Pahang

University Ranking Newsletter



UMP Maintains Position on the QS World University Rankings 2021

Universiti Malaysia Pahang (UMP) maintained its position in the QS World University Rankings 2021 edition, as ranked by the ranking agency QS Quacquarelli Symonds on 10 June 2020.

The QS World University Rankings 2021 edition examined 1,604 institutions from all over the world and based on various factors which are academic reputation, employer reputation, citations per faculty, faculty/student ratio, international faculty, and international students. This ranking witnessed UMP in the top 64% in the QS World University Rankings compared to last year's ranking. UMP is ranked as the best university among the Malaysian Technical University Network (MTUN) and sits in the top 10% of all universities in the world.

Information on the QS World University Rankings 2020 edition — published by Quacquarelli Symonds, global ranking agency, can be accessed through topuniversities.com.

By Puan Hazlina Faizal, Rankings & Branding Unit, Centre of Corporate & Quality Management



7 UMP Subjects Listed in World's Ranking

A total of seven subjects of Universiti Malaysia Pahang (UMP) joined the list of world's elite universities in the World University Rankings by Subjects 2020.

The listed subjects are Engineering and Technology (386), Chemical Engineering (151–200), Electrical and Electronic Engineering (201–300), Mechanical, Aeronautical and Manufacturing Engineering (351–400), Pure Science (Chemistry) (451–500), and Social Sciences and Management (Business and Management Studies) (501–600).

The Deputy Vice-Chancellor (Academic & International), Professor Ts. Dr. Mohd. Rosli Hainin said that the university's performance of four indicators, namely academic reputation, employer reputation, the number of indexed articles, and citations from Scopus.

According to the President of the Students' Representative Council (MPP) 2019/2020, Mohd Fitri Zulkaffli

in the QS World University Rankings by Subject this year proves that this university is on the right track in becoming a top university by 2050.

Meanwhile, Ahmad Rifqi Mohd. Jerome Rinjes, the Vice President (Communications and Corporate) of UPM, Faculty of Engineering, also felt proud with all the subjects listed in the QS World University Rankings.

Credit to Pekan Review



CITREX 401 Products Flourish Innovation Culture

The 10th edition of Creation, Innovation, Technology & Research Exposition (CITREx) 2020 saw Universiti Putra Malaysia (UPM) encouraging and nurturing the innovation culture among the researchers including academicians and students. The event is part of the Malaysian Technological University Network (MTUN), Kolej Poly-Tech MARA, Advanced Technology Training and Research Institute (ATR) and other education institutions (HEI) across the country.

The exposition was held on 12 and 13 February 2020, involving 401 entries that included participation from various institutions. This initiative supports the university's aspiration in communitising technology through the encouragement of innovation.

A total of 218 entries involving UPM staff, eight from MTUN, four from local public universities including Universiti Malaysia (UPM), Universiti Teknologi MARA (UiTM) and Universiti Perguruan Sultan Idris (UPSI), as well as international institutions. The remaining came from UPM students (129 entries) and secondary and primary schools.

Also held was the exchange of Memorandum of Understanding (MoU) between UMP and NanoMalaysia Berhad with PlaTCOM Ventures Sdn. Bhd. (PlaTCOM) relating to the promotion of technology commercialisation and research activities centralised in the East Coast of Peninsular Malaysia.

The event witnessed the Deputy Vice-Chancellor (Research & Innovation), Professor Dr. Kamal Zuhairi Zainuddin, Executive Officer (CEO) of NanoMalaysia, Dr. Rezal Khairi Ahmad, while PlaTCOM was represented by Lina Lina, the company.

Also present were the Chairman of the UMP Board of Directors, Dato' Sri Ibrahim Ahmad, Deputy Vice-Chancellor (Academic & International), Professor Ts. Dr. Zainuddin, and Deputy Vice-Chancellor (Academic & International), Professor Ts. Dr. Zainuddin.

Credit to Pekan Review



UMP Bags 10 Medals and the Best Award for Consumer Electronics

A highly efficient light-emitting diode (LED) system known as MP-Rediac LED Stick was awarded a gold medal for "Best Award for Consumer Electronics" in the Malaysia Technology Expo (MTE) 2020 which was held for three days from 20 to 22 February 2020 at the Putra World Trade Center (PWTC), Kuala Lumpur.

This product was invented by Ts. Ikram Mohd Rashid from the Faculty of Electrical & Electronic Engineering, UMP. It has a unique feature where it does not produce heat at high temperature and does not require heat sink.

The efficiency of the LED UMP Rediac system is high at 157 lm/W. This LED system can be applied not only on floodlights, street lights and other LED applications. This product can also solve the problems faced by night users to obtain a light source at night. This product is mobile and does not require a power source.

The other three gold medals were won by Dr. Chin Siew Choo from the Faculty of Civil Engineering Technology (Project: Sustainable Building Materials), Ts. Dr. Waheb Abdul Jabbar Shaif Abdullah from the Faculty of Electrical Engineering (Project: NB-IoT-FMWS) and Nor Azhar Ahmad from the Faculty of Computing (Project: HeDoo Space Analysis Modules & Generic Circuit Board).

Meanwhile, UMP bagged six silver medals through Associate Professor Dr. Agus Geter Edy Sutjipto (Faculty of Chemical Engineering, Development of Inert Ceramic for Industrial Application), Dr. Mohd Shaiful Zaidi Mat Desa (Faculty of Chemical Engineering, Development of Improved Durability and Low-Cost Solid Ankle-Cushion Heel [SACH] Prosthetic Foot), Dr. Wan Ismail (Faculty of Engineering Technology, MD Solution: MD Compact Unit for Industrial Wastewater Treatment), Associate Professor Dr. Wan Ismail (Faculty of Computing, Efficient Distributed Database Replication Systems for Online Selling Website), Dr. Wan Ismail (Faculty of Computing, Enhancement of Single Path to Multipath Clustering in Wireless Sensor Network for Energy Conservation) and Dr. Wan Ismail (Faculty of Computing, Rex-Chain: Root Exploit Detection and Blocker).

The participation and success obtained by UMP is a positive sign and a proud moment when the research and development participation also opens collaboration opportunities with the industries including small and medium enterprises, which ultimately benefits the public, in parallel with the UMP tagline, Communitising Research.

Credit to Pekan Review



UMP Targets 4 Strategic Objectives towards the Best Technological University by 2050

Universiti Malaysia Pahang (UMP) has laid the foundation in achieving excellence for UMP Strategic Objectives, which are (1) producing holistic community-driven graduates through high-level Technical and Vocational Education and Training (TVET), (2) communitising technology, (3) generating new advanced technologies via research initiatives and (4) ensuring sustainability.

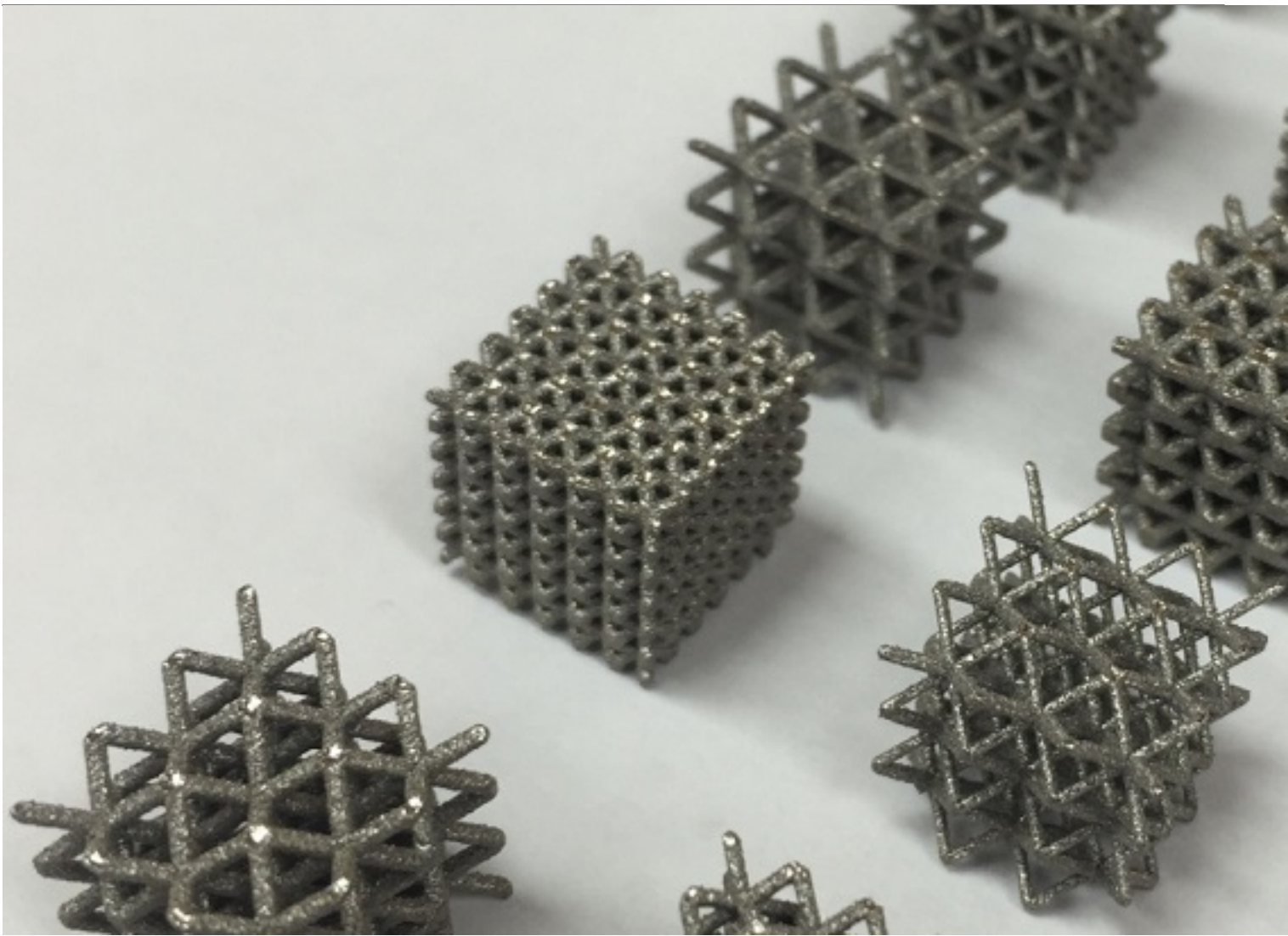
In line with the UMP vision of becoming the best technological university by 2050, the UMP Vice-Chancellor emphasised that the university must have the world-class characteristics and most importantly is to have an autonomous status.

He also said that UMP currently has over 86 percent of lecturers with PhD and in realising the target by 2050, UMP will focus on producing field specialists in inventing new technologies and developing an efficient, effective and respected management system for the university.

In increasing the number of collaborations with international universities especially in Germany and China, in addition to the partnership with the Karlsruhe University of Applied Science (HsKA) Germany, the collaboration with SIASUN Co., Ltd. in Shenyang, China, as well as educational institutions in China allows students to complete two years in the university and another year for industrial training in SIASUN.

According to Professor Ir. Dr. Wan Azhar, UMP is clustered under the Malaysian Technological University category to showcase the capabilities of the country through high-level TVET programmes.

Credit to Pekan Review



The Trend of 3D Printing In Higher Level TVET Skill

Additive manufacturing is a recent trend in production processes owing to its many benefits around the globe. It has been the most searched for technology to Frost and Sullivan, the value of additive manufacturing is expected to grow at a rate of 15 percent from 2018 to 2025. The industries that are going to contribute 51 percent by 2025 are aerospace, automotive, and medical.

The 2015 Wohler report stated that a lot of new technology had been evolved in material production for metal parts with plastics. SmarTech Markets Publishing reported that metal printing machines sales grew a significant amount in 2015 as manufacturers turn to three-dimensional (3D) printing.

To accommodate the recent trend, UMP collaborates with Qatar University to secure a grant on Qatar National Research Fund (QNRF) worth RM3.2 million, and UMP obtained RM160,000 from the award. The main objective of the project was to investigate the use of 3D printed lightweight titanium alloy femoral stems that can be manufactured using direct metal laser sintering (DMLS). A porous graded design was utilised to develop a novel pore cellular structure with compressive properties.

A 3D finite element model was developed to study and compare the load transfer to the periprosthetic femur, offering different stiffness configurations. Also, fatigue and static tests were done on the fabricated design under cyclic fatigue loadings. Factors affecting the manufacturability and production of the femoral stem through DMLS for total hip arthroplasty (THA) is a common hip replacement procedure. Due to material stiffness mismatch between the stem and bone, it is possible, and many patients had to redo the surgery because of the excessive wear.

As such, novel material design for the hip femoral stem is needed to reduce material stiffness mismatch through manufacturing will give the surgeon the freedom to customize the hip femoral implant based on the patient's project is essential to produce a printing implant for the patient. The current trend shows an increase in the completed successfully, and it is a stepping stone for UMP to involve in additive

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UMP Contributes 600 Hand Sanitisers for Frontliners

As an effort to assist the frontliners to curb the spread of the Covid-19 outbreak, Universiti Malaysia Pahang contributed 600 hand sanitizers: triUMPH (1 L) and hand-carry Germs Free Hand Sanitizer (30 mL). Senior Executive from the Office of Pahang Menteri Besar, Dato' Harun bin Dato' Saifuddin Saharudin Ramli presented the contribution to Senior Private Secretary of Pahang Menteri Besar, Dato' Harun bin Dato' Saifuddin, 2020.

Also attended were the General Manager of UMP Technology Sdn. Bhd., Muhamad Nizam Abdul Rashid and the Senior Executive of the Services Division of the Office of Pahang Menteri Besar in Kuantan. This triUMPH product is the innovation of MNR Multitech Sdn. Bhd., which are the wholly-owned subsidiaries of UMP Holdings.

Germs Free Hand Sanitizer is a product of UMP Renal Care Sdn. Bhd., a UMP spin-off company. According to the information, it is formulated according to the standard of the World Health Organization.

According to Saharudin, the contribution was one of the social responsibility initiatives to the community during the frontliners who are working hard to break the virus chain.

In addition to hand sanitisers, UMP Renal Care Sdn. Bhd. Also produces food vinegar-based high-level surface disinfectant for public housing areas, housing interiors, schools, offices and hospitals. In an effort to support the frontliners tirelessly to fight the outbreak, UMPH has also launched triUMPH Frontliners Fund to collect

Credit to Pekan Review

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