



UNIVERSITI
TEKNOLOGI
PETRONAS

COVER RATIONALE



TRANSFORMATIONAL YEARS

1997 - 2017

Annual Review 2017 1 January to 31 December 2017

The cover of our 2017 Annual Review depicts the UTP logo within the circle of the number 20 that marks our 20th Anniversary this year.

In these two decades, UTP has grown from its humble beginnings to an institute that has earned its place as the top private university in Malaysia, gaining worldwide recognition for its commitment to excellence in academics as well as research.

The circle enclosing our logo symbolises the successful completion of the goals that were outlined by our founders. The deep blue hues of our corporate colours represent the depth and stability of our commitment, our purpose and our resolve to strive for continuous improvement and excellence.

Having achieved the goals we set, many of which went beyond our expectations, UTP is now ready to break out of the circle of our infancy as a young fledgling in the world of academics and research and soar to greater heights.



The UTP Annual Review 2017 is available in both print and online version. The online version can be found at www.utp.edu.my

CONTENTS



CORPORATE PROFILE

004

The University	007
Vision and Mission	009
Our Logo	009



UNIVERSITY GOVERNANCE

010

Chancellor	012
Pro Chancellor	014
Vice Chancellor	018
Acting Vice Chancellor	020
Board of Directors	022
Management Committee	024
Senate	026
Academic Advisory Council	028
Research Advisory Council	029
Student Development Advisory Council	030
International External Examiners	031
Industry Advisory Panel	032



THE YEAR IN REVIEW

034

A Word from the Chairman	036
A Report from the Vice Chancellor	038
An Exciting 20 Years	062
A Review by the Deputy Vice Chancellor, Academic	078
Academic Diary	092
A Review by the Deputy Vice Chancellor, Research and Innovation	100
Research & Innovation Diary	104
A Review by the Deputy Vice Chancellor, Student Affairs and Alumni	128
Student Affairs And Alumni Diary	134



CORPORATE PROFILE





THE UNIVERSITY



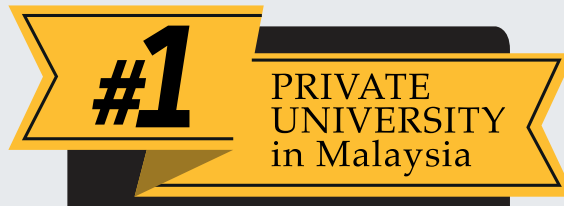
Universiti Teknologi PETRONAS was founded on 10 January 1997. The university is a wholly-owned subsidiary of PETRONAS, Malaysia's national oil company.

Built on a 400 hectare (1,000 acres) site, it is strategically located in Bandar Seri Iskandar in Perak Darul Ridzuan, Malaysia, a 45-minute drive from the state capital of Ipoh.

UTP is a leading private university with a focus on engineering, science and technology courses. It offers a wide range of industry-relevant science and technology programmes at undergraduate and postgraduate levels, with the aim to produce well-rounded graduates, equipped with excellent leadership qualities and community skills.

The university is also keenly and extensively focused on research, in collaboration with PETRONAS as well as various other institutions and industries, locally and abroad. Its research focuses on six niche areas, specifically Self-Sustainable Building, Transport Infrastructure, Health Analytics, Hydrocarbon Recovery, Contaminant Management and Autonomous System.

UTP has an enrolment of 8,400 students - 1,200 are in the foundation programmes, 6,000 are undergraduates and 1,200 are postgraduate students. As of 2017, it has produced more than 15,000 graduates, including those from more than 60 countries around the world.



OUR VISION

A Leader in Technology Education and Centre for Creativity and Innovation.

OUR MISSION

UTP is an institute of higher learning. We provide opportunities for the pursuit of knowledge and expertise for the advancement of engineering, science and technology to enhance the nation's competitiveness.

Our objective is to produce well-rounded graduates who are creative and innovative, with the potential to become leaders of industry and the nation.

Our aim is to nurture creativity and innovativeness and expand the frontiers of technology and education for the betterment of society.

OUR LOGO

Relates to the concept of renaissance, birth and nurturing of the mind for national advancement of the highest order. Simulates the bloom of a floral bud while injecting a graphic outline of the PETRONAS Twin Towers.

Reflects the beginning of a journey towards new standards in higher education. Gold to denote light and deep pastel blue to signify peace and tranquility.



UNIVERSITI
TEKNOLOGI
PETRONAS

**UNIVERSITY
GOVERNANCE**



CHANCELLOR

TUN ABDULLAH AHMAD BADAWI

Tun Abdullah Ahmad Badawi has had a career as a civil servant, political leader, diplomat and statesman that spanned 45 years. Born in 1939, he graduated from the University of Malaya with a Degree in Islamic Studies and started working for the Malaysian civil service in 1964. In 1978, he left the civil service to become a politician and rose to become Prime Minister of Malaysia 25 years later in 2003.

Tun Abdullah has held various Ministerial positions in government and his portfolio includes being Minister of Education, Defence, Foreign Affairs, Home Affairs and Finance. Excelling in diplomacy and international relations, as Prime Minister, Tun Abdullah sought to improve bilateral and multilateral cooperation, actively taking a turn to lead, among others, the Association of Southeast Asian Nations (ASEAN), Non-Aligned Movement (NAM) and Organisation of Islamic Conference (OIC).

Tun Abdullah introduced the concept of Islam Hadhari to guide development efforts in Malaysia and the Islamic world. This move towards progressive Islamic civilisation is an approach that is compatible with modernity, yet is firmly rooted in the values and injunctions of Islam.

Tun Abdullah focused on human capital development as a key pillar of his Administration. This went beyond merely improving education in Malaysia, to enhancing mindsets and infusing ethical, moral and religious values. He strongly promoted Science and Technology and pushed innovation and creativity to the fore.

As Chairman of the OIC, Tun Abdullah waged a war against poverty and the lack of knowledge and development in the Muslim world. He promoted the importance of education and initiated projects to spur growth in these nations.

Tun Abdullah also worked to enhance trade, business and investment linkages between OIC Member countries. He is the founding patron of the World Islamic Economic Forum (WIEF) and International Halal forums and trade expositions initiated by Malaysia are now held regularly throughout the globe to advance the growth of Halal industries.

Tun Abdullah stepped down as Prime Minister on 3 April 2009. He remains committed to pursuing development, promoting progressive Islam and enhancing understanding between the Muslim and Western worlds. He is the Chairman of the Malaysian Institute of Islamic

Understanding (IKIM), and of the Institute of Advanced Islamic Studies (IAIS) in Kuala Lumpur which he established in 2009.

The former premier also holds several government advisory roles, including those in Malaysia's regional growth corridors and Malaysia Airlines Bhd. Internationally, Tun Abdullah is the member of the InterAction Council, a board member of the BOAO Forum for Asia (BFA) and World Muslims Foundation, and Chair of the Commonwealth Eminent Persons Group.



— PRO CHANCELLOR —



TAN SRI SIDEK HASSAN

Tan Sri Sidek Hassan is the Chairman of PETRONAS, a position he assumed in July 2012.

Prior to joining PETRONAS, Tan Sri Sidek served in the Administrative and Diplomatic Service of the Malaysian Civil Service for over 38 years, the last six as the Chief Secretary to the Government.

Tan Sri Sidek began his career on 15 April 1974 as an Assistant Director in the International Trade Division of the Ministry of Trade and Industry. He has extensive working experience within the Ministry of International Trade and Industry (MITI) including postings at MITI offices in Tokyo, Sydney, and Washington, D.C. He was appointed as Deputy Secretary-General (Trade) on 19 January 2001 and as the Secretary-General of MITI on 24 October 2004.

Tan Sri Sidek served as the President of International Islamic University Malaysia (IIUM) between 2008 and 2013, and is currently the Pro Chancellor of UTP.

In May 2017 he was appointed as the Chairman of KLCC Property Holdings Berhad and KLCC REIT Management Sdn Bhd. He is also the Chairman of KLCC (Holdings) Sdn Bhd. Since 1 May 2016 he has been the Chairman of Malaysia Digital Economy Corporation (MDEC). He was also a former board member of Top Glove Corporation Berhad and Malayan Flour Mills Berhad.

Tan Sri Sidek holds a Bachelor of Economics (Hons) in Public Administration from University of Malaya and Masters of Business Administration (MBA) from New Hampshire College, United States of America.

He also holds numerous Honorary Doctorate Degrees; in Public Administration from Universiti Tun Abdul Razak (UNITAR); in Management from Universiti Putra Malaysia (UPM); in Management from Universiti Teknikal Malaysia Melaka (UTeM); and in International Business from IIUM.

PRO CHANCELLOR

TAN SRI WAN ZULKIFLEE WAN ARIFFIN

Tan Sri Wan Zulkiflee Wan Ariffin began his career with PETRONAS in 1983 as a Process Engineer. Over the years, he has held various positions including Executive Assistant to the President; General Manager, International Projects Management Division of OGP Technical Services; and General Manager for the Strategy and Business Development Unit.

He then served as the Managing Director and Chief Executive Officer of PETRONAS Gas Berhad, a public listed subsidiary, and later became the Vice President of Gas Business.

In 2010, he was appointed Executive Vice President and Chief Executive Officer of Downstream Business and as the Chairman of PETRONAS Chemicals Group Berhad and PETRONAS Dagangan Berhad. He also assumed the additional role of Chief Operating Officer of PETRONAS in 2012.

He is currently the Chairman of the National Trust Fund, a Council Member of the East Coast Economic Region Development Council (ECERDC) and chairs the ECERDC

Audit Committee. The Pro Chancellor of UTP, he is a member of the Global Science and Innovation Advisory Council (GSIAC), an Advisory Council Member of the National Institute of Public Administration (INTAN) and a member of the Board of Trustees for the Razak School of Government.

He attended the Advanced Management Programme at Harvard Business School in 2004 and was conferred an Honorary Fellowship by the Institution of Chemical Engineers, United Kingdom in November 2005.

Tan Sri Wan Zulkiflee Wan Ariffin was appointed President and Group CEO of PETRONAS on 1 April 2015.



— VICE CHANCELLOR —



DATUK IR (DR) ABDUL RAHIM HAJI HASHIM

until 31 October 2017

Datuk Ir (Dr) Abdul Rahim Haji Hashim was appointed as the Vice Chancellor of UTP on November 1, 2012. He graduated in Electrical and Electronics Engineering from the University of Birmingham, United Kingdom in 1976 and later received an Honorary Doctorate in Engineering from the same university in 2006.

He worked for PETRONAS for 32 years from September 1976 to December 2008 and held some important and key positions. These include as MD/CEO of PETRONAS Penapisan Melaka and Malaysian Refining Company (1991-1998), Vice President of Human Resource Management (1998-2002), Vice President of Gas Business (2002-2006) and Vice President Research and Technology (2006-2008). He was also the Technical Manager (1982 – 1987) and Refinery Manager (1987 – 1988) for PETRONAS Penapisan (Terengganu) Sdn Bhd, PETRONAS' first refinery in Kerteh.

A professional engineer, he sat on the Board of Engineers Malaysia and was Chairman of the Engineering Accreditation Council of Malaysia (2007-2012). He is currently an Advisor of Institute of Materials Malaysia, a Fellow and a

Council Member of the Academy of Sciences Malaysia, a member of the Board of Engineers National Monitoring Committee, a board member of SIRIM and Deleum Berhad, a public listed company and of Malaysia Convention & Exhibition Bureau MyCEB's Kesatria.

In October 2016 he was admitted as a William Pitt Fellow by the Pembroke College of Cambridge. He is the Past President of the International Gas Union (2009-2012), the Immediate Past President of the Malaysian Gas Association (2003-2015) and Past President of the Asia Pacific Natural Gas Vehicle Association (2003-2009). He attended the Harvard Advance Management Programme in 1997.

Datuk Ir (Dr) Abdul Rahim Haji Hashim became the Vice Chancellor of University of Malaya (UM), effective from 1 November 2017.

— ACTING VICE CHANCELLOR —

PROFESSOR DR MOHAMED IBRAHIM ABDUL MUTALIB **from 1 November 2017**

Professor Dr Mohamed Ibrahim Abdul Mutalib is a graduate from University of New South Wales, Sydney, Australia with a Bachelor of Chemical Engineering (Hons) to his name.

He began his illustrious career with Universiti Teknologi Malaysia (UTM) as an Assistant Lecturer with the Faculty of Chemical and Natural Resources Engineering. Subsequently, he pursued his postgraduate studies and obtained a MSc in Process Integration followed by a PhD from The University of Manchester Institute of Science and Technology (UMIST) in 1990 and 1995 respectively.

He returned to serve UTM as Senior Lecturer until March 1997 when he moved over to Institute of Technology PETRONAS Sdn Bhd (ITPSB). When ITPSB became Universiti Teknologi PETRONAS in 1998, he founded and headed its Chemical Engineering programme, designing the curriculum and developing the required supporting resources.

In 2000, Professor Dr Mohamed Ibrahim was appointed as the Director of Research and Consultancy in UTP and played a key role in the development and implementation of the R&D and Consultancy masterplan for the university. Following this he led PETRONAS' Ionic Liquids Centre and spearheaded research in Ionic Liquids Application. Simultaneously he was highly instrumental in the formation of the UTP Transformation Plan aimed at developing UTP into a globally recognised research university.

Professor Dr Mohamed Ibrahim became the Dean of the Faculty of Engineering in 2013 and assumed the management position of Deputy Vice Chancellor, Academic in April 2016.

A Fellow of IChemE, UK he is recognised as a Chartered Engineer by the UK Engineering Council. An active researcher he has published over 100 journal papers with an h-index of 18 and he has won numerous awards including the Best Green Invention in ITEX 2015.

Nationally, he has served as an evaluator for the Engineering Accreditation Council, Malaysia accrediting Bachelor of Engineering programmes in line with the Washington Accord. In light of his prolific contribution to his field, he has had the privilege of working as a reviewer with numerous groups including National Research Grant Schemes such as IRPA, E-Science, FRGS and TechnoFund.

Internationally, he has sat on the committees of several international conferences, reviewed reputable journals and was also appointed as a reviewer for the Qatar National Research Foundation Grant.

He took office as the fourth Vice Chancellor of UTP on 16 May 2018.



BOARD OF DIRECTORS

■ CHAIRMAN

DATO' RAIHA AZNI ABD RAHMAN



■ MEMBER

DATUK MOHD ANUAR TAIB



■ MEMBER

MOHAMED FIROUZ ASNAN





MEMBER ■
FREIDA AMAT



MEMBER ■
DATUK IR (DR) ABDUL RAHIM HAJI HASHIM
until 31 October 2017



MEMBER ■
PROFESSOR DR MOHAMED IBRAHIM ABDUL MUTALIB
From 1 November 2017



COMPANY SECRETARY ■
AHMAD NABIL AZIZAN

MANAGEMENT COMMITTEE

■ CHAIRMAN

DATUK IR (DR) ABDUL RAHIM HAJI HASHIM
Vice Chancellor & Managing Director/CEO

until 31 October 2017

■ MEMBER

PROFESSOR DR MOHAMED IBRAHIM ABDUL MUTALIB
Deputy Vice Chancellor, Academic

Acting Vice Chancellor & Managing Director/CEO from 1 November 2017

■ MEMBER

PROFESSOR IR DR MOHD SHAHIR LIEW
Deputy Vice Chancellor, Research and Innovation

■ MEMBER

ASSOCIATE PROFESSOR DR NOR HISHAM HAMID
Deputy Vice Chancellor, Student Affairs and Alumni





■ MEMBER

SOLIHUDDIN AHMAD NASARUDIN
Registrar

■ MEMBER

PROFESSOR DR HILMI MUKHTAR
Dean, Faculty of Engineering

■ MEMBER

ASSOCIATE PROFESSOR DR SHAHRINA MD NORDIN
Director, Project Management Office

■ MEMBER

ZAMRI YUSOF
**Senior Manager, Human Resource
Management and Administration**

■ SECRETARY

HASLINA NOOR HASNI
Manager, Legal Services

SENATE



■ Members

1. Prof Dr Mohamed Ibrahim Abdul Mutalib, Deputy Vice Chancellor, Academic and Acting Vice Chancellor and Managing Director/CEO
2. Prof Ir Dr Mohd Shahir Liew, Deputy Vice Chancellor, Research and Innovation and Dean, Faculty of Geoscience and Petroleum Engineering
3. Assoc Prof Dr Nor Hisham Hamid, Deputy Vice Chancellor, Student Affairs and Alumni
4. Prof Dr Hilmi Mukhtar, Dean, Faculty of Engineering
5. Assoc Prof Dr Shahrina Md Nordin, Director, Project Management Office
6. Assoc Prof Dr Jafreezal Jaafar, Dean, Faculty of Science and Information Technology
7. Assoc Prof Ir Dr Rosdiazli Ibrahim, Dean, Centre for Graduate Studies



■ Members

8. Assoc Prof Dr Balbir Singh Mahinder Singh, Director, Centre for Foundation Studies

9. Assoc Prof Dr Suriati Sufian, Head, Department of Chemical Engineering 10. Assoc Prof Dr Noor Amila Wan Abdullah

Zawawi, Head, Department of Civil and Environmental Engineering 11. Assoc Prof Ir Dr Nursyarizal Md Nor, Head, Electrical and Electronic Engineering Department 12. Assoc Prof Dr Puteri Sri Melor Megat Yusoff, Head, Department of Mechanical Engineering 13. Dr Khaled Abdalla Elraies, Head, Department of Petroleum Engineering 14. Assoc Prof Dr Chow Weng

Sum Head, Department of Geosciences 15. Assoc Prof Dr Wan Fatimah Wan Ahmad, Head, Department of Computer and Information Sciences 16. Assoc Prof Dr Hanita Daud, Head, Department of Fundamental and Applied Sciences 17. Assoc Prof

Dr Zulkipli Ghazali, Head, Department of Management and Humanities 18. Assoc Prof Dr Ku Zilati Ku Shaari, Head, Centre for Student Internship, Mobility and Adjunct Lectureship ■ Secretary 19. Solihuddin Ahmad Nasarudin, Registrar

ACADEMIC ADVISORY COUNCIL

Acting as a forum for the exchange of ideas between the University and various sectors of the community, the Academic Advisory Council first met on 21 February 2003. The council provides guidance and strategic direction for the development of the University, from international collaboration to staff development and consultancy – in tandem with the University's vision and mission. Council members are appointed by the University's Board of Directors and meet at least once a year.

CHAIRMAN

Tan Sri Sidek Hassan

Chairman
PETRONAS

MEMBERS

Tan Sri Datuk Ir Dr Hj Ahmad Zaidee Laidin

Vice President
Academy of Sciences Malaysia

Prof Lord Kumar Bhattacharyya

Founder and Director
Warwick Manufacturing Group
University of Warwick
United Kingdom

Prof Dr David B Prior

Executive Vice President and Provost Emeritus
Dean of Geosciences Emeritus
Texas A&M University, United States of America

Prof Dr Feng Da Hsuan

Special Advisor to the Rector
Director of the Global Affairs Office
University of Macau
Senior Fellow
Institute of Advanced Studies
Nanyang Technological University Singapore

Scientia Prof Dr Deo Karan Prasad

Chief Executive Officer
CRC for Low Carbon Living Ltd
University of New South Wales
Australia

Prof Dr Haruo Takeda

Corporate Chief Engineer
Hitachi Ltd
Japan

Prof Dr Jeom Kee Paik

President
The Ship and Offshore Research Institute
Pusan National University
South Korea

Prof Dr Shih Choon Fong

Advisor to the Chinese Academy
of Sciences & Peking University
Taiwan

Dr Terje Martin Halmø

Professor of Petroleum Engineering
University of Stavanger
Norway

Prof Dr Michael A Celia

Theodora Shelton Pitney Professor of
Environmental Studies
Director, Program in Environmental
Engineering and Water Resources
Department of Civil and Environmental
Engineering
Princeton University
United States of America

Prof Sir David Greenaway

Vice Chancellor
University of Nottingham
United Kingdom

Tan Sri Zarinah Anwar

Chairman
Malaysia Debt Ventures Berhad

Prof Emeritus Tan Sri Dr Zakri Abdul Hamid

Science Advisor to the Prime Minister of
Malaysia

Dato' Raiha Azni Abd Rahman

Senior Vice President
Group Human Resource Management
PETRONAS

Datuk Ir (Dr) Abdul Rahim Hj Hashim

Vice Chancellor and Managing Director/CEO
Universiti Teknologi PETRONAS

SECRETARY

Solihuddin Ahmad Nasarudin

Registrar
Universiti Teknologi PETRONAS

RESEARCH ADVISORY COUNCIL

The University aspires to become a leader in Research & Development and Consultancy and be recognised internationally as a partner of choice for industries as well as a respected member of scientific communities and an innovation platform for the research fraternity. In its commitment to achieving this vision, the University established the Research Advisory Council (RAC) in 2010. This council meets annually to deliberate issues and matters concerning the development of the University especially in areas pertaining to research, innovation and commercialisation. The prominent and esteemed members of the RAC have the important roles of providing guidance and strategic directions to facilitate UTP to enhance its competitiveness through technology and innovation.

CHAIRMAN

Datuk Ir (Dr) Abdul Rahim Hj Hashim
Vice Chancellor and Managing Director/CEO
Universiti Teknologi PETRONAS

MEMBERS

Prof Abid Khan
Deputy Vice Chancellor/Vice President
(Global Engagement)
Monash University
Australia

Dato' Dr Zainal Abidin Mohd Yusof
President/CEO
SIRIM Berhad

Prof Saman K Halgamuge
Associate Dean
Melbourne School of Engineering
University of Melbourne
Australia

Dato' Kamarul Redzuan Muhamed
Managing Director/CEO
UZMA Group

Dato' Prof Dr Asma Ismail
President
Academy of Sciences Malaysia

Rao Abdullah
Region Vice President Asia Pacific
Halliburton Energy Services Sdn Bhd

Dato' Dr Zulkifli Mohamed Hashim
Senior Director Agensi Nuclear Malaysia
Ministry of Science, Technology and
Innovation

Dato' Ng Wan Peng
Chief Operating Officer
Multimedia Development Corporation (MDeC)

Dr S Asmaliza Ismail
Head, National Institutes of Health (NIH)
Secretariat
National Institutes of Health (NIH)
Ministry of Health

Chuah Beng Swee
Managing Director/CEO
Technology and Engineering Division
PETRONAS

Dato' Hj Mash'al Ahmad
Managing Director
Lynas Malaysia Sdn Bhd

Prof Ir Dr Mohd Shahir Liew
Deputy Vice Chancellor
Research & Innovation
Universiti Teknologi PETRONAS

SECRETARY

Assoc Prof Dr Zuhairi Baharudin
Director Research Management Centre
Universiti Teknologi PETRONAS

STUDENT DEVELOPMENT ADVISORY COUNCIL

The Student Development Advisory Council (SDAC) is a council of industry leaders that advises UTP in its quest to produce well-rounded graduates. The main role is to provide industry perspectives on the functions and operations of the various student development initiatives in UTP that can enhance graduate marketability. The SDAC also provides inputs on challenges in meeting the current industry employability requirements. Its inaugural meeting was held on 10 September 2012.

Chairman

Datuk Ir (Dr) Abdul Rahim Hj Hashim
Vice Chancellor & Managing Director/CEO
Universiti Teknologi PETRONAS

Members

Dato' Dr Adnan Alias
Chief Executive Officer
The Islamic Banking and Finance
Institute Malaysia (IBFIM)

Datuk Chin Leng Sim @ Marina Chin
AMN PJK
Former Director Sports Division
Ministry of Education

Mohd Suhaimi Baharudin
Director/Senior Vice President
Human Resource Management
Technip Malaysia

Ainul Azhar Ainul Jamal
Chairman
Schlumberger Malaysia

Dato' Ng Wan Peng
Chief Operating Officer
Multimedia Development Corporation (MDeC)

Dato' Dr Ismail Alias
Vice President
Persatuan Kaunseling Malaysia (PEKAMA)

Kamal Bahrin Ahmad
Chief Executive Officer
PETRONAS Penapisan Melaka

Nan Yusri Nan Rahimy
Group Managing Director
Deleum Berhad

Goh See Wee
Executive Director
Astir Technology Sdn Bhd

Mac Chung Jin
Deputy Chief Executive Officer
Muhibbah Engineering (M) Bhd

Azlan Rudy Abdul Malik
Chief Executive Officer
1Malaysia For Youth (iM4U)

Secretary

Assoc Prof Dr Nor Hisham Hamid
Deputy Vice Chancellor
Student Affairs and Alumni
Universiti Teknologi PETRONAS

INTERNATIONAL EXTERNAL EXAMINERS

Quality assurance is an integral part of the University's education process to ensure its academic programmes are of the highest quality and meet international standards. The International External Examiners meeting has been held annually since 1999. It deliberates on examinations, curriculum development, staff development and facilities, future trends of engineering education and matters pertaining to research and development. These meetings provide invaluable input that contribute towards the realisation of the University's vision and mission towards establishing it as a leader in engineering and technology education.

Chemical Engineering

Prof Dr Barry Crittenden

Department of Chemical Engineering
University of Bath
United Kingdom

Civil and Environmental Engineering

Prof Dr Bjorn Birgisson

Director, Centre for Infrastructure Renewal
TEES Distinguished Research Professor
Professor of Civil Engineering at Texas A&M University
United States of America
Honorary Professor at Aston University
United Kingdom

Electrical and Electronic Engineering

Prof Jamie Evans

Professor and Deputy Dean (Academic)
Melbourne School of Engineering
The University of Melbourne
Victoria, Australia

Mechanical Engineering

Prof Paul D Funkenbusch

Professor of Mechanical Engineering
Professor of Materials Science
University of Rochester
New York, United States of America

Management and Humanities

Prof John M Luiz

Professor of International Business at the
School of Business, Management and Economics
University of Sussex, United Kingdom
Visiting Professor at the Graduate School of Business (GSB)
University of Cape Town, South Africa

Petroleum Engineering

Prof Dr Mohamed Y Soliman

Department Chair & William C Miller Chair
Petroleum Engineering Department,
University of Houston
Texas, United States of America

Geosciences

Prof Dr John G Kaldi

Chief Scientist CO2CRC
Chair of Geosequest Cooperative Research
Centre for Greenhouse Gas Technologies
Australian School of Petroleum
University of Adelaide
Adelaide, South Australia
Australia

Business Information Systems

Prof Andy Koronios

Head School of Information Technology and Mathematical Sciences Division of Information Technology Engineering & Environment
University of South Australia
Adelaide, South Australia
Australia

Information and Communication Technology

Prof Dr David John Duke

Head of School
School of Computing
University of Leeds
United Kingdom

Applied Chemistry

Prof Paul D Lickiss

Professor of Organometallic Chemistry
Imperial College Department of Chemistry
Imperial College, London
United Kingdom

Applied Physics

Prof Michael Christopher Payne

Director of EPSRC Centre for Doctoral Training in Computational
Professor at University of Cambridge
United Kingdom

INDUSTRY ADVISORY PANEL

The University has taken proactive steps to ensure that the education it delivers remains relevant to industry practices. In order to further strengthen its relationship with industry players, the Industry Advisory Panel (IAP) was established and held its inaugural meeting on 7 May 2007. The University invited twenty-four panel members comprising senior practitioners from the industry, all with vast experience and expertise in their respective fields, to assist in planning and continuously improving the quality of the programmes offered in UTP. Industrial input from panel members helps the University to further enhance its curriculum and to establish academic-industry collaboration. Panel members are required to meet the heads of departments at least once a year to discuss academic curriculum, teaching methodology, facilities and practices to help it stay abreast with emerging needs of the industry.

Chemical Engineering

Datuk Sazali Hamzah
Vice President
Managing Director/CEO
PETRONAS Chemical Group Berhad

Razak Rahman
Project Manager
Malakoff Corporation Berhad

Julianna Kamarudin
General Manager
NGC Energy Sdn Bhd

Paul R Ellis
Managing Director
Schaefer Kark (Malaysia) Sdn Bhd

Ir Fauziah Ali
Principal Engineer
Advanced Process Control
Group Technical Solutions

Civil And Environmental Engineering

Dato' Ir Gue See Sew
Managing Director G&P Geotechnics Sdn Bhd
CEO G&P
Professionals Sdn Bhd

Datuk Ir Elias Ismail
Senior General Manager
Construction Technology Development Sector
CIDB Malaysia

Prof Ir Hj Mohamed Haniffa Hj Abdul Hamid
Chief Operating Officer
Indah Water Konsortium Sdn Bhd

Ir Wan Anuar Wan Endut
Managing Director & Civil Engineer
Arup Jururunding Sdn Bhd

Ir Liam We Lin
Technical Director
Civil & Structural Engineering Consultancy
Services
RPM Engineers Sdn Bhd

Wan Mohammad Sobri Wan Abdullah
Principal Engineer (Water Technology)
PETRONAS Group Technology Solution (GTS)
Project Delivery and Technology Division

Ir Noorul Khairi Mohd Nor
CEO/ Director
MMC Oil & Gas Engineering Sdn Bhd

Electrical & Electronic Engineering

Dr Aznan Ezraie Ariffin
Senior Manager (Commercial)
Corporate Transaction Group
Energy Ventures Division
Tenaga Nasional Berhad (TNB)

Shah Rizal Dahlan
Custodian Engineer Instruments & Controls
PETRONAS Group Technical Solution (GTS)

Dato' Mohd Ali Hanafiah Mohd Yunus
Chief Officer Digital Ecosystem
Malaysian Communications & Multimedia
Commission (MCMC)

SK Fong / Fong Swee Kiang
Former Vice President of Engineering
Programmable Solutions Group

Ir Tan Shiew Sun, Johnson
Vice President Process Automation
Digital Factory / Process Industries & Drives
Head of Regional Vertical Sub-Segment (VSS)
Glass & Solar ASEAN, Business Segment
Coordinator for Process Instrumentation
ASEAN Siemens Malaysia Sdn Bhd

Ir Salmey Abdul Halim
Project Director / Custodian Electrical
Pengerang Cogeneration Plant (PCP) and
Pengerang Transmission Line Projects (PTL)
PD&T Division, PETRONAS

Andrew Thuan
Vice President, IT & Cloud
ERICSSON

Eng Ling Ho
Principal Engineer
Intel Corporation

Dato' Noor Kamarul Anuar Nuruddin
Chief Special Project Officer
Celcom

Mohd Farid Zainal Abidin
CEO & Founder
Elvira Systems Sdn Bhd

Mechanical Engineering

Ir Rosli Hj Yusof
Principal Engineer
Product Technology (Rotating Equipment)
Cluster, Mechanical Engineering Department
Group Technical Solutions, Technology &
Engineering Division, PETRONAS

Ir Roznan Abdul Rashid
Technical Services Manager
General Electric Power

Ir Nasir Abdul Hamed
Director of Expert Service
Mechanical Engineering Branch PWD,
PWD Headquarters, Kuala Lumpur

Ir Akmal Hisham Hamzah
Lead Pipeline Engineer
RNZ Integrated (M) Sdn Bhd

Petroleum Engineering

Dr Bazlee Matzain
Founder/ Director
Amaray Pty Ltd/ Amaray Innive Sdn Bhd

Dr Raj Deo Tewari
Custodian, Reservoir Engineering
PETRONAS Carigali Sdn Bhd

Abd Rahman Harun
Reservoir Engineering Advisor
EnQuest Petroleum Developments Malaysia
Sdn Bhd

Dr Marco T Rincon Torres
Baroid Central Asia Technical Manager
Halliburton

Bahrom Madon
Custodian, Production Technologist
PETRONAS Carigali Sdn Bhd

Syahir Luthfi Chan
Continuous Performance Improvement
Manager, Schlumberger (M) Sdn Bhd

Petroleum Geosciences

Muhammad Kamal Embong
General Manager Upstream
Business Exploration
Geology & Reservoir Solutions, PETRONAS

Ahmad Hatta Kamaruzzaman
Managing Director, Engineering Malaysia
Aker Engineering Malaysia Sdn Bhd

Abdul Hanan Ahmad Nadzeri
Deputy General Manager
FUGRO GEODETIC (Malaysia) Sdn Bhd

Azmi Ismail
Head, Project Delivery & Operations
Vestigo Petroleum Sdn Bhd

Dato' Yunus Abd Razak P Geol
Chairman, Board of Geologists Malaysia
Board of Geologists Malaysia

Zuraida Mat Isa
General Manager Geophysics/Petrophysics
Energy Quest Sdn Bhd

Computer & Information Sciences

Dr Dzaharudin Mansor
National/Regional Technology Officer,
Microsoft, Microsoft Malaysia

Mohd Nizam Abdul Rahim
Head of IT Services
Sime Darby Global Services Centre

Johan Affendi Johan Shah Steven
Business Chief Information
Officer – Corporate, PETRONAS ICT Sdn Bhd

Wan Ahmad Kamal Wan Halim
Executive Vice President – Enterprise
Telekom Malaysia Bhd

Afizulazha Abdullah
Head of Operational Excellence
CELCOM AXIATA Berhad

Marcos Bonfim de Azevedo
Global Data & Analytics Manager
Schlumberger

Dr Ettikan Kandasamy Karuppiah
Director, Developers Ecosystem,
Enterprise Business, South East Asia
NVIDIA Singapore

Abu Bakar Ngah
Freelance Trainer / Consultant

Mohd Asrul Abdul Aziz
Managing Director
Uzma Integrated Solution Sdn Bhd

Management & Humanities

Datuk Abdul Jalil Abdul Hamid
Chief Executive Officer, NSTP
The New Straits Times Press (M) Bhd

Rosli Ismail, LtM, MIPR
Senior Manager, Corporate Communications
Permodalan Nasional Berhad

Prof Datuk Dr Azizan Baharuddin
Director-General
Institut Kefahaman Islam, Malaysia (IKIM)

Mohd Redzuan Mohd Sofian
Head of Department (Business Eco System)
Iskandar Regional Development Authority (IRDA)

Nik Mohd Hasyudeen Yusoff
Founder
Inovastra Capital Sdn Bhd

Applied Chemistry & Applied Physics

Dr Stefan Beckmann
Managing Director
BASF PETRONAS Chemicals Sdn Bhd

Dr Chuah Chaw Teo
Executive Director
Spritzer Bhd

Dr Rezal Khairi Ahmad
CEO
NanoMalaysia Berhad

Mohd Rezuwan Shah Zakaria
Senior Vice President
R&D and Innovation Department
Johor Biotechnology & Biodiversity Corporation

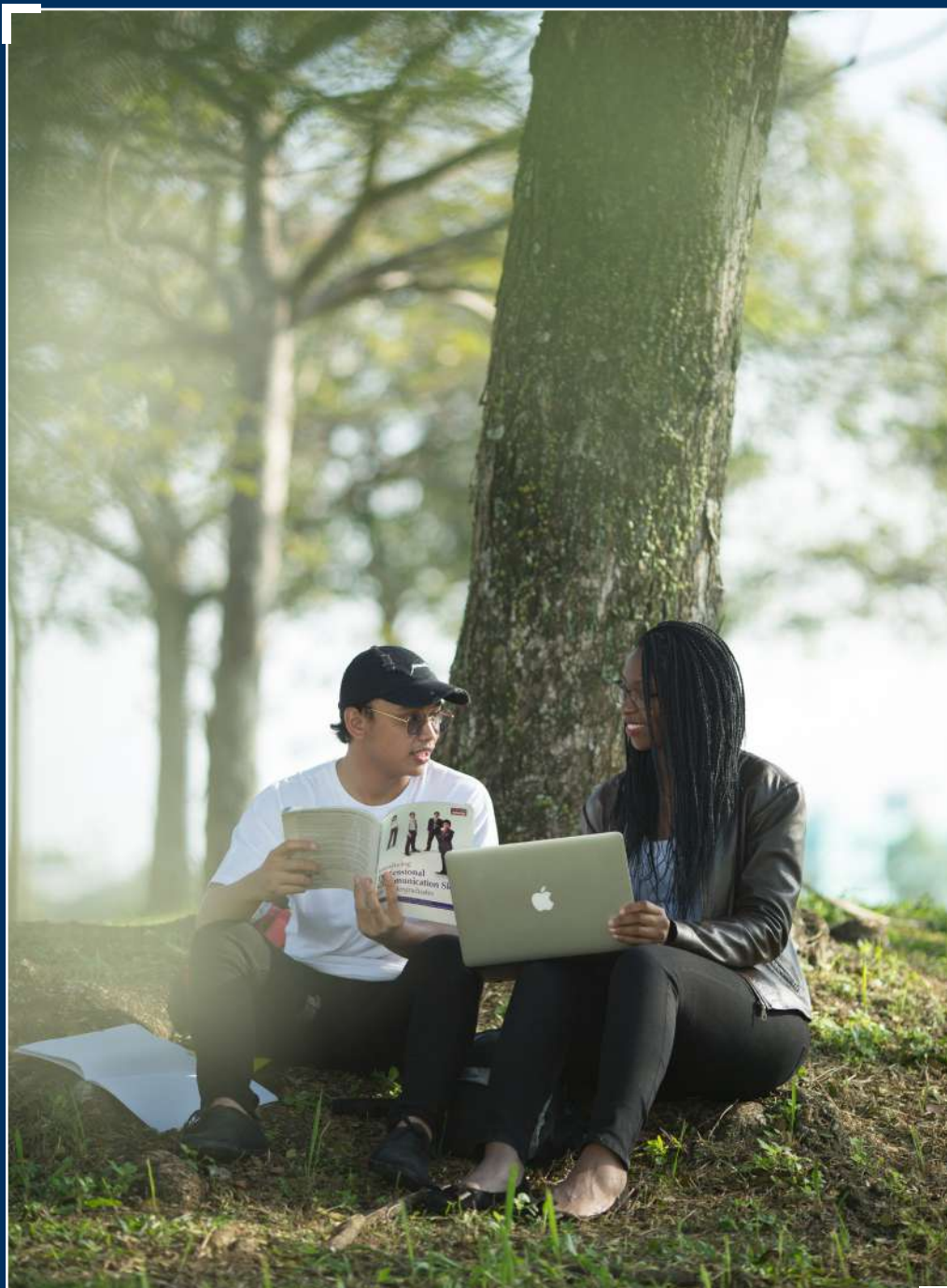
Dato' Ir Muhamad Guntor Mansor Tobeng
Managing Director
Gading Kencana Sdn Bhd

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THE YEAR IN REVIEW

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|



A WORD FROM THE CHAIRMAN

Dato' Raiha Azni Abd Rahman

The year 2017 was an exciting one for UTP as we passed more milestones in our journey towards excellence. Economic and global challenges notwithstanding, we kept our eye on the goals we had set and diligently worked towards achieving them.

Hard work certainly does pay and I must commend and thank everyone in the University, from the decision-making board of directors right to each and every staff member as well as our valued students who collectively contributed to the success we have achieved to date.

Every single thing we have done from the very idea of the university itself has brought us to where we stand today. We have now completed the first phase of our journey culminating in the celebration of our 20th anniversary, completing our initial strategic plan which had outlined the steps towards positioning UTP at the forefront of academic excellence.

This we have done, supported and recognised by MyRA as well as global accreditation bodies such as the TIMES Higher Education ratings and the QS ratings. We not only continued to maintain the position we had achieved the previous years but also achieved a Tier 6 (Outstanding) status in the SETARA 2017 ratings (Rating for Higher Education Institutions in Malaysia) under the Mature University Category.

The goal now is to continue holding these rankings while pushing for improved standings in the coming years. These

recognitions allow us to evaluate our position and our offerings as an institute of higher learning, enabling us to improve on weaknesses while also lending us a competitive edge in the global arena.



Global Contribution

Our students continue to make their mark on the world as they are absorbed into various fields, especially those which we specialise in, namely the field of engineering and petroleum. Despite the challenges in the oil industry the past few years, we have stood our ground and continued to produce graduates who are well-received by industry. More importantly they are fully prepared and well-skilled to contribute and meet industry needs.

We also pride ourselves in producing graduates who are solution providers



and problem solvers and this makes UTP graduates all the more valuable to employers, further attesting to our competence and excellence in the delivery of our academic programmes.

UTP is also diligently positioning itself as a key research partner. We continue to actively encourage our academics and researchers to be innovative and creative and we strive to maintain a conducive research environment. The University's new research building which was opened early this year is expected to further pave the way for industrial collaboration in research activities. The goal is to make UTP the "go-to" partner for industrial problems and solutions, much like how the many distinguished and internationally recognised research universities are looked upon in various parts of the world.

This will also ensure our sustainability and relevance in a highly evolving and competitive world where students and industry are becoming ever more discerning in their choices for tertiary education and industrial partnerships.

This then is the next blueprint that we have embarked upon as we look forward to the next 20 years of UTP. Pursuing our goal Towards Global Prominence, the objective is to strengthen UTP's position as a sought-after and well-recognised institution for both academics and research.

We have made significant strides into this area with the numerous collaborations and partnerships we have established through the years and we continue to actively seek out more partnerships for mutual growth and benefit. Today's world is such that networking is key to progress and advancement. On another note, I must say

that this is indeed fitting as no man is an island and team-driven goals which result in mutual benefits are the ideal win-win situation.

The year 2017 has indeed been an excellent year for the University. I congratulate the staff and students for their outstanding achievements and take this opportunity to thank them all. I appreciate their contribution, dedication and loyalty. I would also like to extend my deepest appreciation to the alumni and our partners for their support.

On behalf of the Board, I would like to thank the Chancellor, YABhg Tun Abdullah Ahmad Badawi and the Pro Chancellors, YBhg Tan Sri Sidek Hassan and YBhg Tan Sri Wan Zulkiflee Wan Ariffin and the distinguished members of the Academic Advisory Council for their unwavering support and guidance. I would also like to record our sincerest appreciation and gratitude to YBhg Datuk Ir (Dr) Abdul Rahim Hashim for his outstanding leadership. Most importantly, I would like to record my heartfelt gratitude to PETRONAS and ITPSB Board for the support in making 2017 another successful year.

The way forward is always paved with good intentions and noble goals; but we know that it can also be obstructed by difficulties and hurdles. We are prepared to embrace the challenges we know will inevitably come our way, bearing in mind that nothing worthwhile comes easy. Victory and success will be all the sweeter for having overcome hurdles as we emerge a stronger and better UTP.



A REPORT FROM THE VICE CHANCELLOR

Professor Dr Mohamed Ibrahim Abdul Mutalib



Looking back over the past 20 years, the university's achievements since our beginnings in January 1997 has been nothing short of extraordinary. From a simple and humble teaching institution with hardly any facilities to speak of, we have become a leading research university, with a 6-star MyRa rating to our name.

We have achieved many milestones, some of which much earlier than projected and some which came by easier than we thought it would. We are grateful and

humbled and yet proud of the fact that we are now positioned among the best in Malaysia while also making waves in the Asian and global arenas.

In these two decades, and especially so in recent years, much has been said about the accolades, awards and recognitions that have been bestowed upon UTP. Each step of the way and every effort compounded the achievements of UTP as a whole and they are all testimony to the dedication and work of everyone here at UTP. We

are indeed grateful for the dedication and commitment of everyone and are especially glad that these efforts have paid off handsomely.

Peppered throughout this Annual Review are records of our achievements throughout the year, the most significant of which, I feel, is retaining the MyRa 6-star rating for the third consecutive year. This recognition is all the more significant as UTP was the first private and non-RU (Research University status granted by the

government) in the country to receive this accolade and it was also the first time that the Ministry of Higher Education had given such an award when we first received it in 2015.

Having said all that, the past, while it has helped shaped who we are, is nevertheless the past and the important thing is where we go from here.

Administrative Analysis

As we celebrated 20 successful years and basked in the awards we received, we simultaneously pushed forward with goals and aspirations and also had to deal with certain realities.

One was the drop in enrolment this year, which fell by about 20%. UTP is a private university and attending private university is realistically all about affordability. With 40% of our students coming from the B40 group, a UTP education is beyond the means of the average family even though we are among the more affordable private universities in Malaysia.

Economic conditions have significantly reduced the number of scholarships forthcoming from our parent PETRONAS and from sponsoring some 90% of our students when we first started, we can only fund about 20% today. We have to take on the role of sourcing funding from sponsorship bodies and from industry and



we are keenly focused on promotion and securing financial aid for students. This is something we are passionate about as we receive applications from bright and capable students who deserve the opportunity.

Another thing we have stepped up efforts in is the outreach to schools. Curiously, there has been significant drop in interest in STEM programmes on a global scale. This has inadvertently resulted in a drop-in enrolment in STEM courses, especially in the last three years.



Our outreach programmes to the public and to secondary schools is to grow and nurture interest in STEM courses in tandem with the government's efforts to meet the national target of 60% enrolment in such courses.

This is important not only for the sustainability of UTP but also for the development needs of Malaysia. A lot of elements in daily life require technology and engineering expertise, even the taken-for-granted simple amenity of piped clean water and technology is effectively the driving force of development, especially in light of global technology advancement. Malaysia has come far in training our own people and we want to maintain and increase the expertise we have. This would also open up opportunities to export our expertise, something that would elevate Malaysia's name further.

Meanwhile, we continue to forge alliances with various industry and academic partners. In 2017, we inked 140 MoUs, encompassing various areas from education, research, internship programmes, infrastructure facilities for our campus and various other intents and purposes, all noted in the forwarding pages of this review.

As always, each and every collaboration is in line with our focus to improve UTP while contributing back wherever we are able to. Such collaborations also help us to work at a level that is beneficial to industry and enable us to do research that is current as well as futuristic.





Forward Momentum

Our focus has and will continue to be providing the best of academic programmes while steering UTP towards becoming a pace setter through convergence and integration in leading cutting-edge Research and Innovation by 2020 and beyond.

Propelled and driven by our vision to be a leader in technology education and a centre for creativity and innovation, it is all the more important to become a pace setter in today's highly charged and challenging educational environment.

The adage "keep up with the times" has never held more truth than the present times as we race to maintain a competitive edge in the provision of tertiary education. Our approach going forward will be a three-fold focus, (i) Teaching & Learning Excellence (ii) Innovative Research and (iii) Enriching the Student Experience.

In staying relevant and contemporary the way we impart knowledge has to be continually modified to meet the needs of students. Today's undergraduate has

access to information at the touch of a keypad, anywhere and everywhere. Working together with technology and modern information transfer would be vital in our efforts to transfer knowledge.

One could say that the role of today's classroom is no longer the transference of book knowledge, facts and figures but more towards guiding and leading the student towards the application of such knowledge. Our role today is to create thinkers instead of learners.

With technology taking over so much of what we do and jobs potentially becoming irrelevant, we must be constantly on our toes. Nevertheless, it is not impossible to accurately and exactly predict where technology will take us. All we can do is to prepare our students with solid fundamentals and expand their ability to integrate knowledge and apply said fundamentals into the necessary applications. Technology itself, after all, is founded on fundamentals and at the end of the day, these will stand true and firm.



We also teach students to be adaptable and agile and nurture in them the entrepreneurial spirit, encouraging them to see things out of the box and to identify possibilities and potential. Basically, our role is to prepare them to face potential uncertainties and while we can plan, there will be times we will have to improvise and perhaps just “wing it” as it were.

As for Research, we are single-minded in our goal of positioning UTP as a cutting-edge Research and Innovation player. We already have the momentum and we are earnestly working at building up our strengths.

Towards this, in the second half of 2017 we restructured our 9 MORs into two key areas we identify as Energy Sustainability and Smart Communities and we have parked three Research Institutes under each of these flags. Each headed by an institute director, these six Research Institutes will delve into how we can better structure human lives under changing times and challenging energy needs. We must face the reality that we have energy and environmental issues to contend with and to be of true value, we must contribute towards the betterment of human lives.

We will also soon set up a company - UTP FutureTech Sdn Bhd - that will offer consultancy services, short courses and testing services



This will result in more spin-off companies that will handle the individual projects as they come along and consolidate our efforts. Such successful commercialisation efforts will also help us to be self-sustaining.

Riding on the premium brand of PETRONAS will leverage and optimise our efforts as well.

The third focus area of Enriching the Student Experience was identified to keep UTP strong in the game of tertiary education. Students today select universities not just by rankings or course availability. They place great importance on

the experience and expectations run high.

In creating the best student experience, we need the best of everything - facilities, extra-curricular activities, exposure to things non-academic as well as the overall physical environment of the university. Students are discerning and selective in that they also consider what they will take-away with them, aside from the coveted graduation scroll.

The advent of Industrial Revolution 4.0 will change the nature of higher learning and we also need to consider the concept of Education 4.0 to suit future generations of students. UTP's aim is to



Ultimately, in planning for the future of the university the key would be not only to remain relevant but to also be the squeaky wheel that receives the oil and contribute meaningfully and significantly in meeting the needs of Malaysia and the world at large.

challenge ourselves to redefine the holistic experience of a university student. The goal is to plant values and principles and to "humanise" technology, because no matter how advanced we become, the human element must always be present. This brings us to the 7 Attributes of Well-Rounded Graduates, namely (i) technically competent (ii) solution synthesis (iii) critical thinking (iv) practical (iv) aptitude (v) business acumen and entrepreneurship (vi) communication and behaviour skills and (vii) lifelong learning.

Our three focus areas will keep us busy indeed in the coming years as we strive to consolidate and strengthen our position.



FAREWELL DATUK VICE CHANCELLOR

After an illustrious five years with the University, our Vice Chancellor bade farewell to UTP, leaving behind not only fond memories, but a legacy of achievements, accomplishments, and successes.

Stepping in as the University's third Vice Chancellor on 1 November 2012, Datuk Ir (Dr) Abdul Rahim Haji Hashim immediately took the bull by its horns. UTP was, at that time, heading into a steep phase of its development and was eyeing to improve its visibility and stature as a leading research university and centre for excellence in education at the local and international level.

Bringing with him decades of experience in the oil and gas industry and a vast link of networks, Datuk Rahim built on, and further strengthened the foundations that his two predecessors had laid. Well-known for his impeccable integrity, sound judgment, wisdom, determination, humility, and passion for capability development, he left an enduring impact on the university.

Under his dynamic and outstanding leadership, UTP has achieved many successes, the most prominent being our achievements in the coveted QS Rankings and Ratings and most recently, the Times Higher Education Rankings and Ratings. It was also during Datuk Rahim's time that we attained the highest rating for teaching and learning (SETARA), and research and innovation (MyRA) at the national level.

His passion for operational excellence has



led to various initiatives including the nine Action Labs to address various issues and challenges; and the GeneSys Project which transformed our IT system.

Datuk Rahim also spearheaded the construction of two new academic buildings which will be completed in 2020, as well as other capital projects which are under planning including four new research buildings and new student accommodation facilities.

As the face of UTP, Datuk Rahim shored up the university's prestige and stature, emphasizing the values of integrity and sustainability, and the importance of nurturing not only well-rounded graduates but responsible global citizens. The fruits of Datuk Rahim's labour has set UTP firmly on its trail Towards Global Prominence. His legacy will live forever.



SELF-ACCREDITATION STATUS

20 March 2017

UTP is now among 8 universities in Malaysia that have been awarded self-accreditation status by the Ministry of Higher Education (MOHE). The universities were recognised for their academic and management excellence and this move is part of the ministry continuous efforts to redesign the Malaysian higher education system.

Having the authority to self-assess will accord UTP more autonomy in running our academic programmes. This self-

accreditation status places us among the top performing universities in Malaysia that include Universiti Teknologi MARA (UiTM), International Medical University (IMU), Universiti Utara Malaysia (UUM), Universiti Islam Antarabangsa Malaysia (UIAM), Universiti Tuanku Abdul Rahman (UTAR), Universiti Tenaga Nasional (UNITEN) and Multimedia University (MMU).

The self-accreditation system for Malaysian public and private universities was first

introduced by MOHE in 2010. Designed to spur growth in Malaysia's dynamic higher education landscape, the pioneer recipients of the status included Universiti Putra Malaysia (UPM), Universiti Malaya (UM), Universiti Kebangsaan Malaysia (UKM), Universiti Sains Malaysia (USM), Monash University Malaysia, University of Nottingham Malaysia Campus, Curtin University Sarawak and Swinburne University of Technology Sarawak.



OUTSTANDING STATUS FOR SETARA RANKINGS

27 November 2017



UTP has achieved Tier Six or Outstanding status in the Rating System for Malaysian Higher Education 2017 (SETARA 2017) under the Mature University category. Testimony to our continued excellence in education and research.

UTP was among 8 universities and the only non-RU-to receive this rating for 2017. Our fellow recipients were Universiti Malaya

(UM); Universiti Teknologi Malaysia (UTM); Universiti Putra Malaysia (UPM); Universiti Sains Malaysia (USM); International Medical University Malaysia (IMU), Monash University Malaysia and Universiti Kebangsaan Malaysia (UKM).

It is a pat on our backs for a job well-done and an encouragement to maintain excellence.

BREAKING INTO TIMES HIGHER EDUCATION (THE)

UTP is now officially listed in the Times Higher Education Asia University Rankings 2017 (THE AUR 2017).

It sits at the 141 – 150 band amongst the 300 universities ranked in Asia. As the only private university in this coveted list, it joined other Malaysian research universities already ranked, namely UM (59), UPM and UTM (121-130), USM (151-160) and UKM (161-170).

THE AUR is based on the same rigorous criteria as the THE World University Rankings (WUR) with special modifications to better reflect the characteristics of Asia's universities. Thirteen (13) separate performance indicators are employed in this assessment, taking into account

a university's core mission – teaching, research, knowledge transfers and international outlook.

At the same time UTP also made its debut in the inaugural Times Higher Education (THE) Asia-Pacific University Ranking (APUR) 2017, ranking at the 131-140 band. Once again it is the only private university in Malaysia to achieve this recognition.

UTP is third after UPM and UTM. Other local universities in the list are USM, UKM, UiTM and UUM.

THE APUR 2017 analysed universities across 38 nations in East Asia, Southeast Asia and Oceania. It has ranked and featured the best 243 universities in the Asia-Pacific

region this year. The ranking is assessed based on 13 performance indicators, with less weightage on the subjective aspect of perception-based reputation reflecting the generally younger profile of the institutes within the region.

Apart from THE Asia-Pacific University Rankings 2017, UTP also made it to the THE World University Rankings (601-800 band) and ranked 91st in THE BRICS & Emerging Economies Rankings 2017.



LINKAGES AND PARTNERSHIPS

UTP continues to seek out partnerships and linkages with industry and fellow institutions of higher learning in mutually beneficial programmes and activities. Such endeavours connect UTP to both industry and academia and strengthen its research activities while also widening its network of strategic alliances.

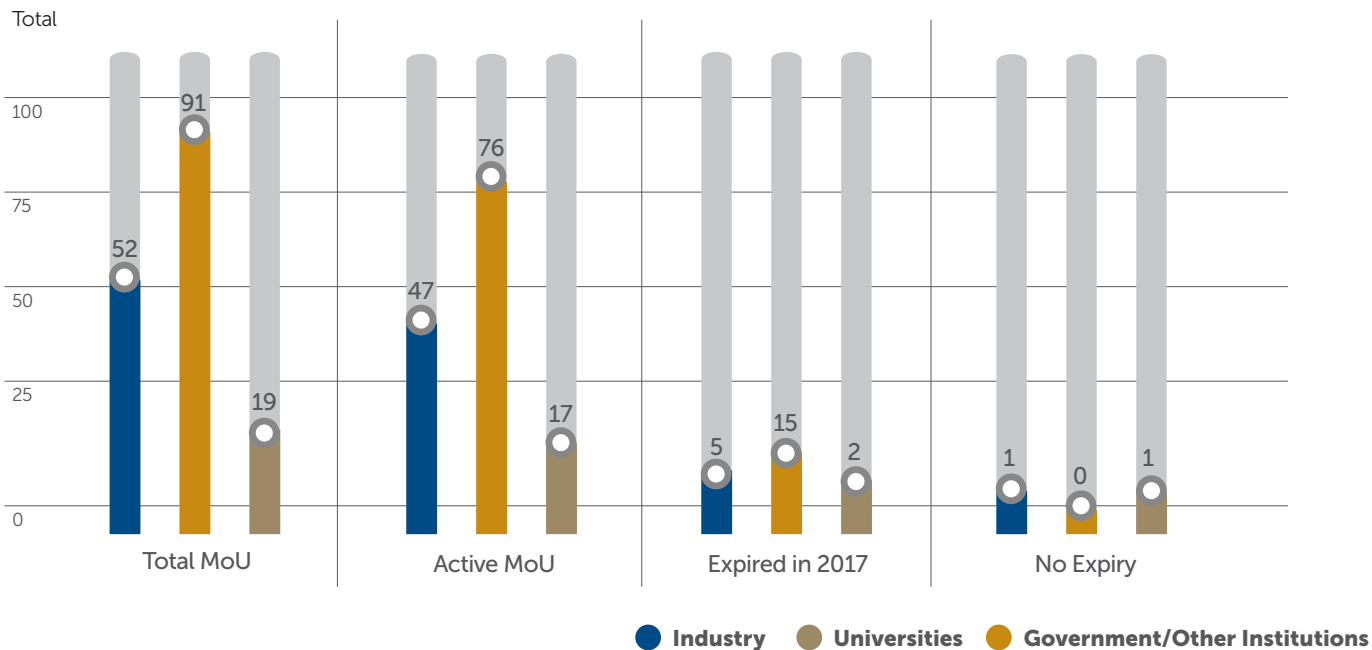
As key drivers of its journey Towards Global Prominence, these connections are crucial elements in ensuring the university's relevance to the global stage as well as in

to ensure its academic programmes keep abreast with growing and changing needs.

UTP's endeavours in this are driven by its Academic Advisory Council, the Strategic Alliance Office and Project Management Office which work cohesively and collectively to ensure that the university remains on track in all its interest areas.

In 2017, UTP linked up with 76 universities, 47 industry partners and 17 other parties in various agreements and programmes.

MoU Summary 2017





WITH THE DEPARTMENT OF SCIENCE AND TECHNOLOGY, PHILIPPINES

05 January 2017

A collaboration to enhance UTP's scientific, technical and engineering competencies

This will give students access to training, facilities and expertise from the Philippines, enabling them to benefit from a diversity of experimental approaches. In developing a wider range of valuable skills, UTP graduates will enhance their employability and marketability and increase their competitiveness in a challenging market.

WITH PERTAMINA UNIVERSITY

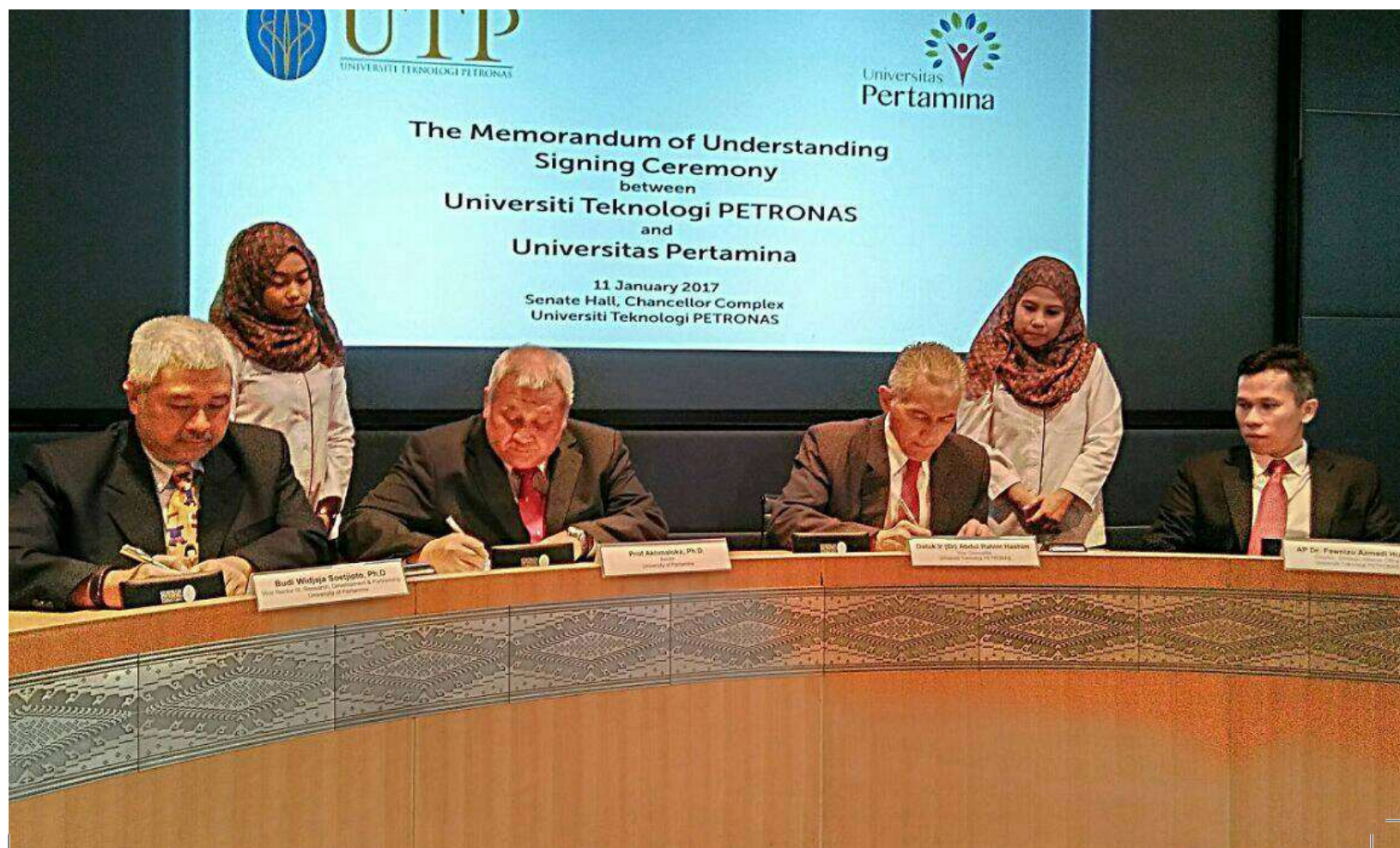
11 January 2017

An endeavour to form a consortium of oil and gas universities in Southeast Asia for the benefit of Asian countries

UTP will take the steering lead consistent with PETRONAS initiatives in strengthening the oil and gas business in Malaysia.

UTP and Pertamina will collaborate on:

- Staff and student exchange programmes
- Research activities and dual degree offerings
- Joint publication and Community Development
- Dedicated annual academic activities for students



WITH HITACHI LTD AND HITACHI ASIA LTD

13 February 2017

To promote global collaboration in Applied Brain Science for Optical Topography

UTP's Centre for Intelligent Signal and Imaging Research (CISIR) will establish the first Optical Topography-Hub (OT-Hub) outside of Japan with technical support from Hitachi.

As a hub for an open innovation network, the CISIR OT-Hub will drive international joint research activities related to Optical

Topography and promote research among universities, hospitals and companies to accelerate research in Applied Brain Science.

UTP, Hitachi and HAS will collaborate with partners of the OT-Hub to solve a range of societal challenges related to medicine, education and other areas.



WITH UKM, USM, YOUTH TRUST FOUNDATION AND INSTITUT DARUL RIDZUAN (IDR)

17 February 2017

To establish the Malaysian Yunus Social Business Network



This network will work together to design potential social business models which will contribute to the socio-economic development of the country. Working closely with other Yunus Social Business Centres around the world, starting with partners from the Asia Pacific region, it aims to make a significant change in societies through social business.

Areas of collaboration include partnership in social business for community development projects, addressing social business challenges and other social business promoting activities. They will also work on scholarly works in education, capacity and capability building activities for social business education, research and development, co-authorship in

reputable journals and book chapters, joint supervision of postgraduate students, staff and student attachment as well as exchange and adjunct lecturer/professor programmes.

WITH MAYBANK

07 April 2017

For the opening of Maybank@UTP

Maybank@UTP offer various financial services and banking facilities to UTP students and staff, adding value to the UTP experience as a whole.

These include opening of bank accounts, facilitation of data and records for PTPTN loan disbursements and educational loans to students through Skim Prihatin Pendidikan 1 Malaysia (SPP1M). Programmes related to financial literacy will also be offered to teach students financial management.



WITH PETROEDGE PTE. LTD. (ASIAEDGE PTE. LTD.) AND NRGEDGE PTE. LTD.

20 July 2017



To collaborate in the areas of digital learning and career progression

This is a three-year agreement that will see UTP working with these two companies to provide training and networking opportunities in the oil and gas and energy industries.

With this, students and lecturers will be able to access various worldwide

recognised organisations in seeking internships and jobs, take part in online forums and discussions and participate in digital technical learning platforms such as webinars and virtual reality modules.

The agreement also paved the way for the selection of two UTP students as NrgEdge Ambassadors.

WITH MICROSOFT

22 August 2017

To leverage on cutting edge technology



In keeping up to date with technological advances, UTP will now be able to leverage on technology such as Cortana Analytics, Power BI, Azure, and Machine Learning, in its teaching, learning, research and operational activities.

These new applications and online services - such as Microsoft Innovation Showcase Centre, Advanced Analytics for Student Lifecycle and Microsoft Imagine Academy - will enable students and staff to connect data across sources, drive intelligent decisions and outcomes, as well as transform processes from end to end. The Cortana Intelligent Education Programme especially will pave the way for the development of graduates with Data Science Skills to meet Malaysian industry needs.

With this agreement UTP has become the first Malaysian university to sign a MoU that covers the Microsoft Cortana Intelligence Education Programme.

WITH PRINCESS OF NARADHIWAS UNIVERSITY THAILAND

30 August 2017

For student mobility and exchange programmes

UTP will host students from this Thai university for English programmes, Research Attachments and also Student Exchange Programmes.

The English programmes especially will help the Thai counterpart to build the English proficiency of their students in line with the Thai Government's aspiration to use the

English Language in all higher institutions within the next 20 years.

This cross-border student programmes are ideal in that the distance between Malaysia and Thailand is small and the countries share many similarities while allowing for cross-cultural experiences.



WITH DELEUM CHEMICALS SDN BHD

23 October 2017



To develop new technologies for oil and gas production

Delium Chemicals and UTP plan to develop new cost-effective technologies to enhance production in oil fields. The two parties will share best practices and expertise particularly for the development of specialty chemicals and instruments to enhance the productivity of the oilfields and reduce flow assurance issues faced by the asset owners.

The major thrust of the agreement is the provision of a sustainable platform for student development and exposing them to workplace technological challenges.

The MoU is for an initial timeframe of two years, with an option to extend, subject to research progress and findings.

WITH NCIA, MIMOS, PKEINPk AND KISMEC

8 November 2017

To enhance academic and research excellence

This agreement with Northern Corridor Implementation Authority (NCIA) paves the way for UTP students to intern in companies within the Northern Corridor Economic Region (NCER). UTP also hopes to help develop local Small and Medium Enterprises under the Industry 4.0 initiative by organising awareness sessions and productivity improvement activities in the NCER.

The university will also:

- Work with MIMOS to develop lab-scale models to full-blown commercially viable products in the areas of cyber models of security for intelligent cities and in wireless technology.
- Team up with Perbadanan Kemajuan Ekonomi Islam Negeri Perak (PKEINPk) towards the implementation of Internet of Things in Agriculture - AIoT - to help UTP researchers move forward while helping the state agency to increase palm oil yields.
- Collaborate with Kedah Industrial Skills and Management Development Centre (KISMEC) on Student Internship and Staff Attachment Programmes as well as joint research and development projects



WITH UNIMAS

12 December 2017

A Research Collaboration Agreement for CSR endeavours

UTP will work with Universiti Malaysia Sarawak (UNIMAS) in the provision of valuable insights for strategic intervention of socioeconomic challenges. This RCA

envisages a structured and comprehensive research to provide empirical insights in strengthening efforts towards community development.



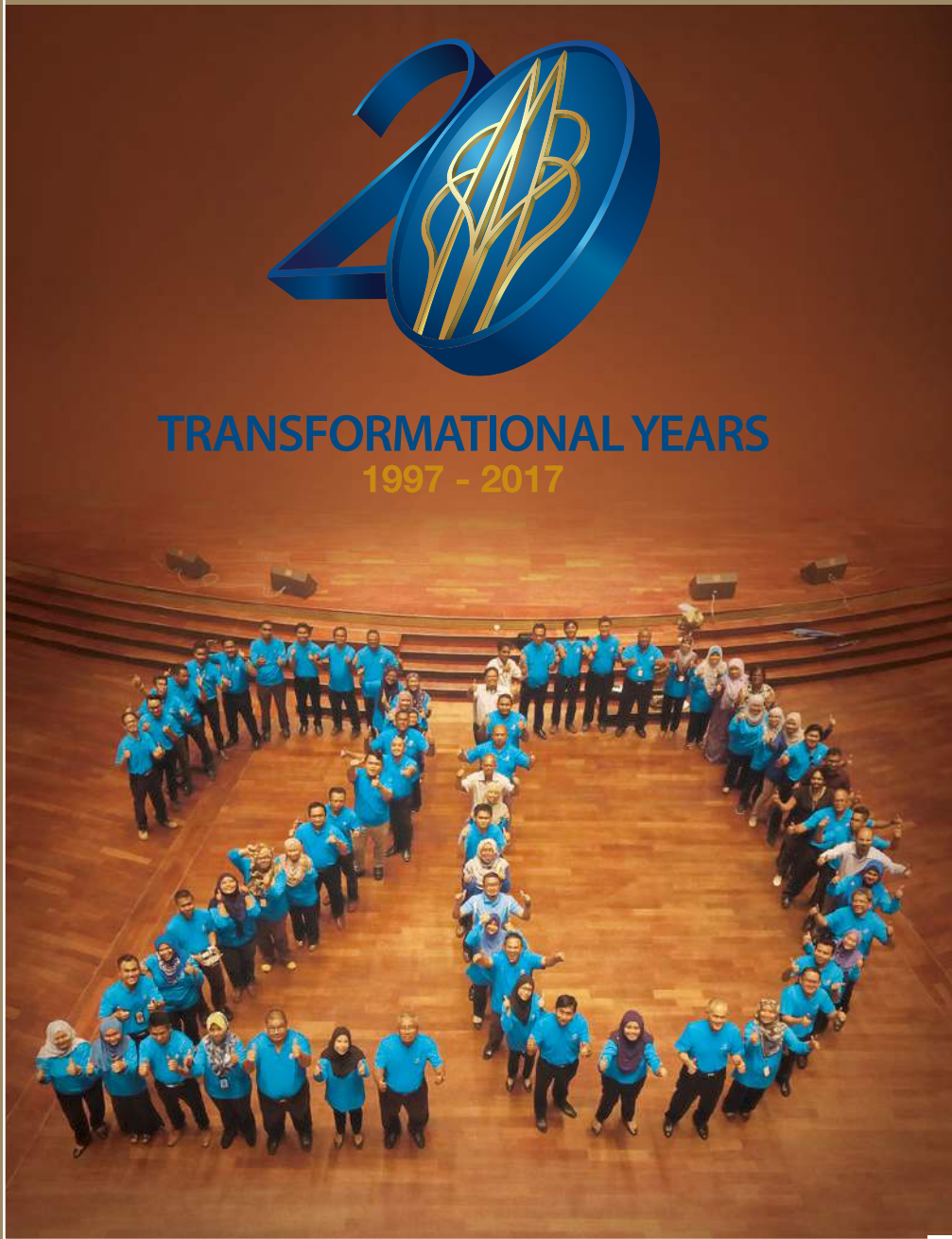


**AN EXCITING
20 YEARS**



TRANSFORMATIONAL YEARS

1997 - 2017



THE STORY OF UTP

The date was 10 January 1997; the event, the birth of Universiti Teknologi PETRONAS.

Twenty years on, UTP has successfully established itself as a premier university in Malaysia, standing true and validating its vision to be a leader in technology education and centre for creativity and innovation.

Born of the need to fill the gaps of skilled and professional workers, especially in oil and gas engineering, it also became part of PETRONAS' CSR efforts to contribute to nation building.

Having humble beginning as Institut Teknologi PETRONAS Sdn Bhd (ITPSB), without even its own designated, purpose-built campus, the first batch of 115 students registered for a Science-based Foundation Programme in July 1995. Of these 65 stayed on to emerge as the institutions' first graduating class, moving on to engineering and technology degree programmes in other universities.

Twinning programmes were on the cards next, followed by the acquisition of USM Tronoh as its campus locale in July 1996. With the emergence of the Private Higher Educational Institutions Act in 1996, UTP was formally born in January 1997 and the rest as they say, is history. Thus began its exciting journey as one of Malaysia's first private universities.





UTP's illustrious history was born and nurtured through continuous hard work, commitment, dedication and most importantly careful and spot-on insight and forethought by the founding minds. They forged ahead with clear goals and an even clearer vision of the what they wanted to establish. UTP explicitly personifies the success principle "Begin with the end in mind".

Better yet, the founders understood that the end was not a destination, per se. They laid down the right foundations and principles for this university to continuously be on a journey towards advancement. This journey has been a noteworthy one,

distinguished by countless achievements, accolades and recognitions, many of which have been won and attained earlier than expected or projected.

Today, 20 years in the making, UTP stands proud as a premier university in Malaysia, carving out an indelible name for itself in the upper echelons of the global academic and research spheres.

This is UTP's story and we are proud to present it.



A PRELUDE

05 January 2017

In anticipation of the university's 20th anniversary celebrations, a kick-off thanksgiving event was held. Staff and students gathered at UTP's iconic mosque, Masjid An-Nur for the "Majlis Kesyukuran dan Doa Selamat".

COMMEMORATING 20 YEARS OF EXCELLENCE

09 January 2017

The university hosted a special night of celebrations to honour past and present leaders of UTP who have played pivotal roles in the foundation, progress and achievements of the university. It also paid tribute to partners, stakeholders, industry drivers and alumni for their contribution and support.



At the hands of these leaders and contributors, supported by dedicated and committed staff much progress has been made in terms of milestones reached, recognition of standards of teaching, the quality of academic programmes and the advanced research standings the university has achieved.

The night also saw the launch of a commemorative 20th anniversary coffee table book, illustrating UTP's journey during the two decades.

A BRAND-NEW R&D BUILDING TO HERALD IN THE FUTURE

10 January 2017

Higher Education Minister YB Datuk Seri Idris Jusoh officially opened the doors to two new R&D Buildings to mark UTP's focus and commitment towards research and development going forward as a centre for creativity and innovation. The buildings sit within the Oil and Gas Cluster of UTP's Research Park, adjacent to the UTP Academic Core section.

The new facilities hold 65 laboratories and offices that can accommodate some 550 researchers and staff within its 21,225 square meters spread over four storeys. An investment of RM100 million, these new research facilities will further support UTP's activities in research and spearhead its integration with industries and other research institutions.

As a start, it will host two of UTP's Mission Oriented Research facilities - Carbon Dioxide Management and Enhanced Oil Recovery. Agensi Inovasi Malaysia has also established an office here.





DISCOVERING UTP

01 - 09 April 2017

UTP held a nine-day event to showcase its campus and its educational offerings. The Discover UTP event attracted more than 20,000 people, from the general public, interested students and industry players.

The programme comprised various activities and seminars, with the highlights being the UTP-Industry Seminar and

Exhibition and Technology, Education, Career Fair or TEC 2017 with fun activities throughout for all ages. TEC was officiated by the Minister of Science, Technology and Innovation, YB Datuk Seri Panglima Madius Tangau. Both the events brought together industry players, job seekers, employers, current, former and potential students, parents and members of the public in the

bid to bring UTP closer to the community and industries it serves.

It showcased UTP's educational programmes, research activities, campus facilities and environment to bring the feel of UTP to the people.

INTO THE MALAYSIA BOOK OF RECORDS

05 April 2017

UTP made it into the Malaysia Book of Records for The Longest Great Ball Contraption Machine.

The effort of 52 students from Chemical Engineering, Mechanical Engineering, Civil Engineering and Computer and Information Sciences, the contraption was 26.18 metres long and incorporated 50 engineering, scientific and programming concepts. It comprised 21 stations that generated a chain of actions showcasing 34 basic principles of physics.

This contraption was showcased in conjunction with Discover UTP.







— TAPESTRY OF COLOURS 2017

29 July 2017

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This year's colourful celebration of song, dance and music raised RM11.4 million for Yayasan UTP.

The 200 students who participated in this biennial sang their hearts out, danced their best and performed with soul for the good and noble cause of funding the university's foundation which in turn helps students fulfil their education dreams. The monies will also fund student development

activities, training courses, competitions, equipment purchase and facilities development.

While the stage was filled with a myriad of cultures, both local and international, the audience comprised main sponsors and contributors, UTP staff and students and members of the public who all came together for a good cause.

The event was also graced by popular artists, Dayang Nurfaizah, Jyin Poh and Daqmie who delighted the floor with their performances.



UTP HOLDS ITS INAUGURAL ALUMNI HOMECOMING

16 September 2017

Some 240 UTP alumni from various graduating classes, made their way back to UTP for the first UTP Alumni Homecoming 2017. They came with their families for a fun-filled event held to celebrate UTP's 20th anniversary.

It was a walk down memory lane for these alumni who had the opportunity to reconnect with their alma mater, former university mates and lecturers.

Strengthening bonds and creating a spirit of camaraderie and loyalty, they participated in the various events specifically organised for them. These included a gala dinner, meet and greet session with UTP academic staff, sharing sessions on parenting, a campus tour as well as football and rugby games.

CELEBRATING MERDEKA THE UTP WAY

20 September 2017



Merdeka Day was celebrated a little bit late in UTP, but it was nevertheless a grand and joyous event.

We had our very own Merdeka Parade at the Chancellor Complex filled with ceremonial solemnity and colour, jubilantly participated by the students and the staff

alike. The day ended with a burst of fireworks that lit up the night sky of the Student Square, with colours and sounds echoing the joyous celebrations and the meaning that it carried for all Malaysians alike.

ROYAL ADDRESS BY HIS ROYAL HIGHNESS THE SULTAN OF PERAK

8 December 2017

His Royal Highness (HRH) the Sultan of Perak, Sultan Nazrin Muizzuddin Shah Ibni Almarhum Sultan Azlan Muhibbuddin Shah Al-Maghfur-Lah shared his wisdom on "Building a Dynamic and Inclusive Education Ecosystem".

In the address to more than 2,000 people, HRH Sultan Nazrin Shah spoke about the importance of building a higher education system that would be capable of adapting

to the opportunities and challenges of the 4th Industrial Revolution that the world is in today. He stressed that it was vital to prepare students to flourish in unpredictable environments of the future.

To do so, the education system needed to be flexible, contemporary and dynamic and capable of responding to changes in order to be relevant and purposeful.

His Royal address was part of the Royal Lecture Series and was held in conjunction with UTP's 20th anniversary celebrations.



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**FROM THE DEPUTY VICE
CHANCELLORS**

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REVIEW BY THE DEPUTY VICE CHANCELLOR, ACADEMIC

PROFESSOR DR MOHAMED IBRAHIM ABDUL MUTALIB

The education arena is a highly competitive playing field, more so with the constant, inevitable and indomitable progression of technology. Times are ever-changing, strongly driven by rapidly advancing technology and with these, the way we live is changing equally fast.

With education being paramount to how we learn and do things, while being the essential foundation for the future, our role as an institution of higher learning is becoming all the more crucial.

So, while UTP was in a celebratory mood in 2017 in conjunction with our 20th anniversary, we were also busy evaluating our position and planting seeds to build the university up further.

Administrative Analysis

As far as academics go, I can say with confidence that we now offer some of the best engineering and technology programmes in the country while also making our presence felt in the world at large.

With significant input and collaboration from industry, our programmes are contemporary and most importantly they are industry relevant. This is exactly what tertiary education is about - equipping the next generation with information, skills and knowledge that are relevant to the needs of industry, the economy and the nation as a whole.

To date, UTP has a foundation programme and 11 undergraduate programmes, that also lead to postgraduate studies in various engineering fields.

Our students are maintaining their performance and they continue to be well

received by industry and generally, we are happy and satisfied with the academic performance of the university. As with everything else in life, nothing is absolutely perfect, nevertheless industry feedback remains positive and UTP graduates are still being sought after.

Their ability to meet industry needs - equipped with the necessary skills and knowledge and being able to present themselves well - continue to bear testimony to our holistic educational programmes. With the graduating class of 1,044 students in 2017, we now have 15,878 alumni who are ambassadors of

the UTP Brand. To date, we have produced 1,126 Masters and 528 PhD graduates. This, I feel, is quite a commendable figure for a university considered to still be in its infancy at 20 years old, especially when compared to the stalwarts in the arena, both locally and internationally.

Meanwhile, we are still working towards an overall 15:1 student to lecturer ratio, with many of our departments having already achieved this standard. This 15:1 ratio is the ideal benchmark we are striving for, surpassing the minimum 20:1 as set by world accreditation bodies. Nevertheless, each department would



have its own ideal ratio depending on the course matter. Additionally, as we redefine our teaching methods, this may necessitate varying requirements.

As at the end of 2017, our current enrolment stands at 5,992 undergraduates and 1,248 postgraduate students, and they are supported and guided by 421 lecturers, with 26.21% being from the international community.

In 2017, we penned 140 academic collaborations and MoUs, including the establishment of the Malaysian Yunus Social Business Network in UTP and the agreement

with Microsoft making UTP the first Malaysian university to sign a MoU that covers the Microsoft Cortana Intelligence Education Programme. These collaborations will widen our network, add to our curricula recognition and also further enrich the student experience especially in the area of international internships. As of this year, we have 259 companies who welcome our undergraduates for our internship programme, which incidentally we are proud to say is one of the longest and most productive in Malaysia.



We are happy to report that our academic staff are quite prolific publication-wise, with 1,219 academic papers published in 2017 with a total of 13,552 citations. We have also published 781 journals and 438 conference proceedings.

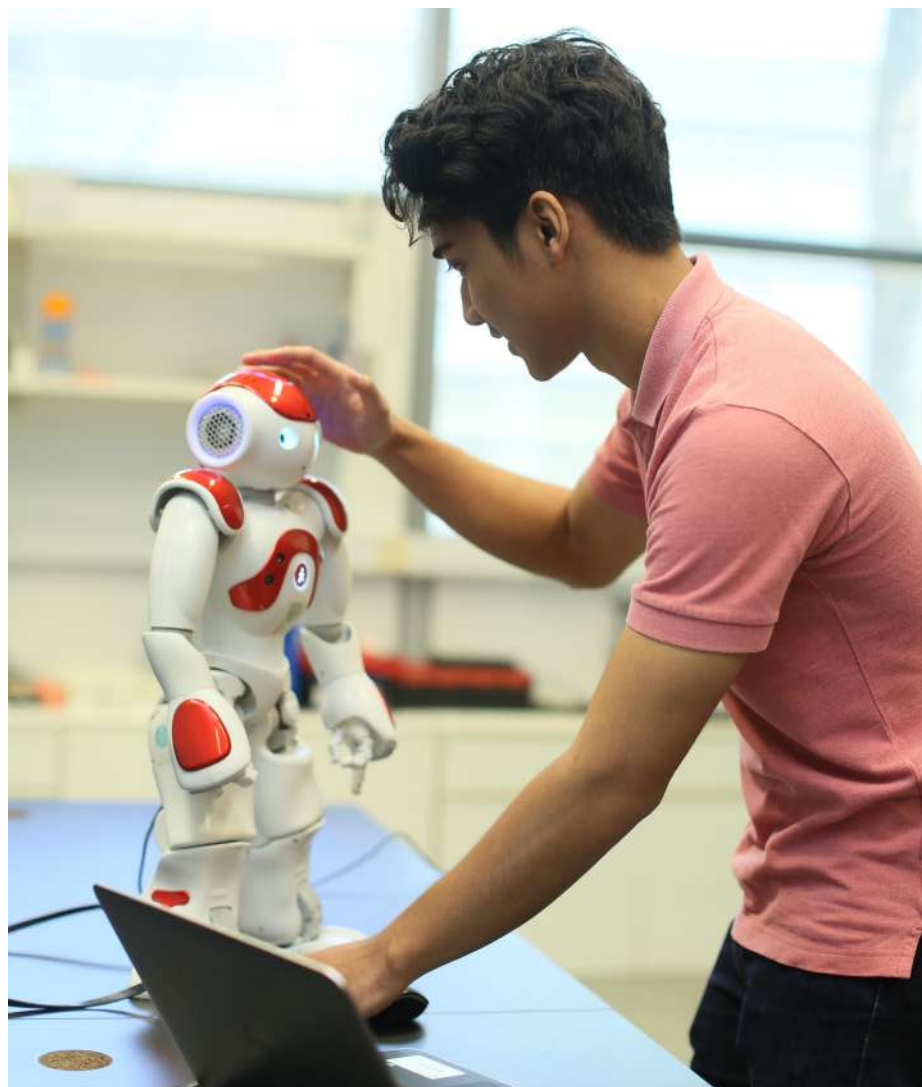
Going Forward

Having consolidated the content and administration of our academic programmes, one of the primary areas we are keenly looking into is how we impart knowledge to our students.

With the setting up of Centre for Teaching and Learning (CETaL), we are redefining and reconfiguring our teaching and learning methods. We are already in our forward momentum towards global prominence and to push further we need to keep our teaching methods in line with international progress and change. This is vital for the sustainability of the university and also in keeping up with the changing methods of information transfer with the ever-so wide use of the Internet and technology-based learning.

One of the key aspects we are looking at is fully adopting the concept of “active learning”. Instead of the traditional pedantic one-way classroom lectures, we must embrace participatory and interactive learning. Information is practically at the fingertips of students these days at the touch of a keypad or keyboard. We need to draw them into using that information into problem solving and real-time approaches instead of merely feeding them what they can find out themselves.

This will put the onus of preparation on them, which would also be effective in teaching



them to be self-reliant and responsible learners. To do this, we have to also change the mind-set of our lecturers and I am happy to say that this has been a successful endeavour with almost all of them now starting to embrace this approach. As we continue to encourage and lead both the students and the staff further down this pathway, we will create a new breed of graduates.

In encouraging students to apply knowledge, we also inadvertently generate interest and inspire them to be inquisitive and creative; and so we nurture thinkers and innovators instead of just learners.

This would in turn augur very well for our research endeavours. Just as academics is the primary purpose of a university, it simultaneously is the backbone of research and innovation. Therefore, UTP's Academic division works hand-in-glove with the Research & innovation Division unit to encourage the application of knowledge into new ideas and innovations.

Research however cannot stand merely as an academic exercise. It is only valuable when it is put to good use in society and industry and we have a plan for this too.

We are also putting a lot of work into outreach programmes, especially in secondary schools to encourage interest in technology courses. We have a dedicated team passionate about taking the UTP brand to schools throughout the country, introducing the various academic opportunities we have for them.

This year (2017) we took UTP to 40 secondary schools in the country. We also participated in numerous education exhibitions and expositions - having also organised some of these ourselves. In conjunction with our 20th anniversary, the Discover UTP 2017 in April was one such event which drew in scores of people into UTP, enabling us to showcase what we offer.

As for our academic staff we have various initiatives in place towards strengthening

our research capabilities. This will in turn help our academics increase the number of paper citations and subsequently build stronger academic reputation through rigorous academic research networking and collaboration efforts with other institutions. Improving our infrastructure to support our academic activities is also very much on the cards going forward.

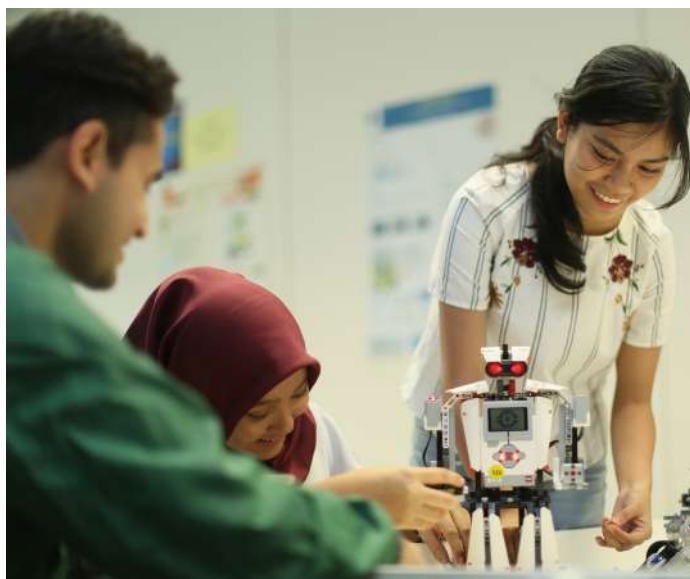
At the end of the day, what we want is to remain a sustainable, credible and relevant institution of higher learning, with impactful academic programmes that prepare our graduates well for technology-based careers.

It is heartening to be able to report that after 20 years, we have indeed achieved in the early goals we set ourselves. However, the higher education playing field is widening ever so

significantly and we have to be constantly on our toes to continue playing - and playing well - in this field.

We closed off 2017 well, after a year-long celebration. While we pat ourselves on the back for two decades of a job-well-done, we are ever conscious of our journey towards continued improvement and growth.

We are ready and we are willing.



CENTRE FOR TEACHING AND LEARNING (CETaL)

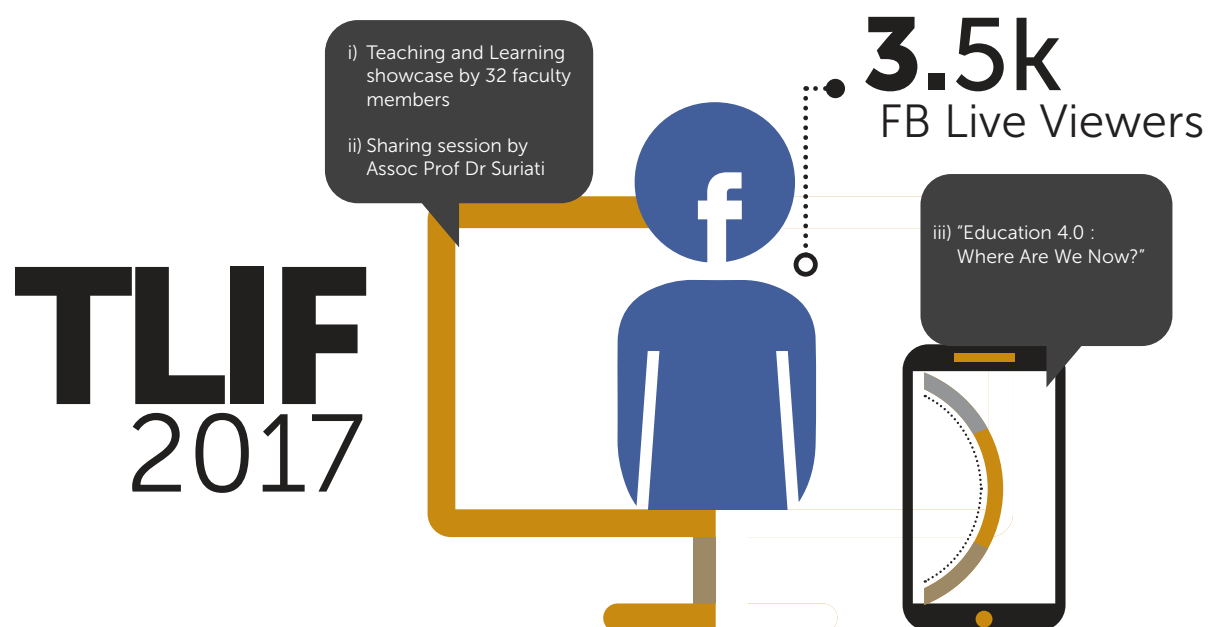


**WORKSHOPS
& TRAININGS
ORGANISED**



327
Participants





COMPULSORY TRAINING ON ACTIVE LEARNING

90% Academic staff attended

57 Graduate Assistants attended

A total of 20
cooperative learning
trainers were trained

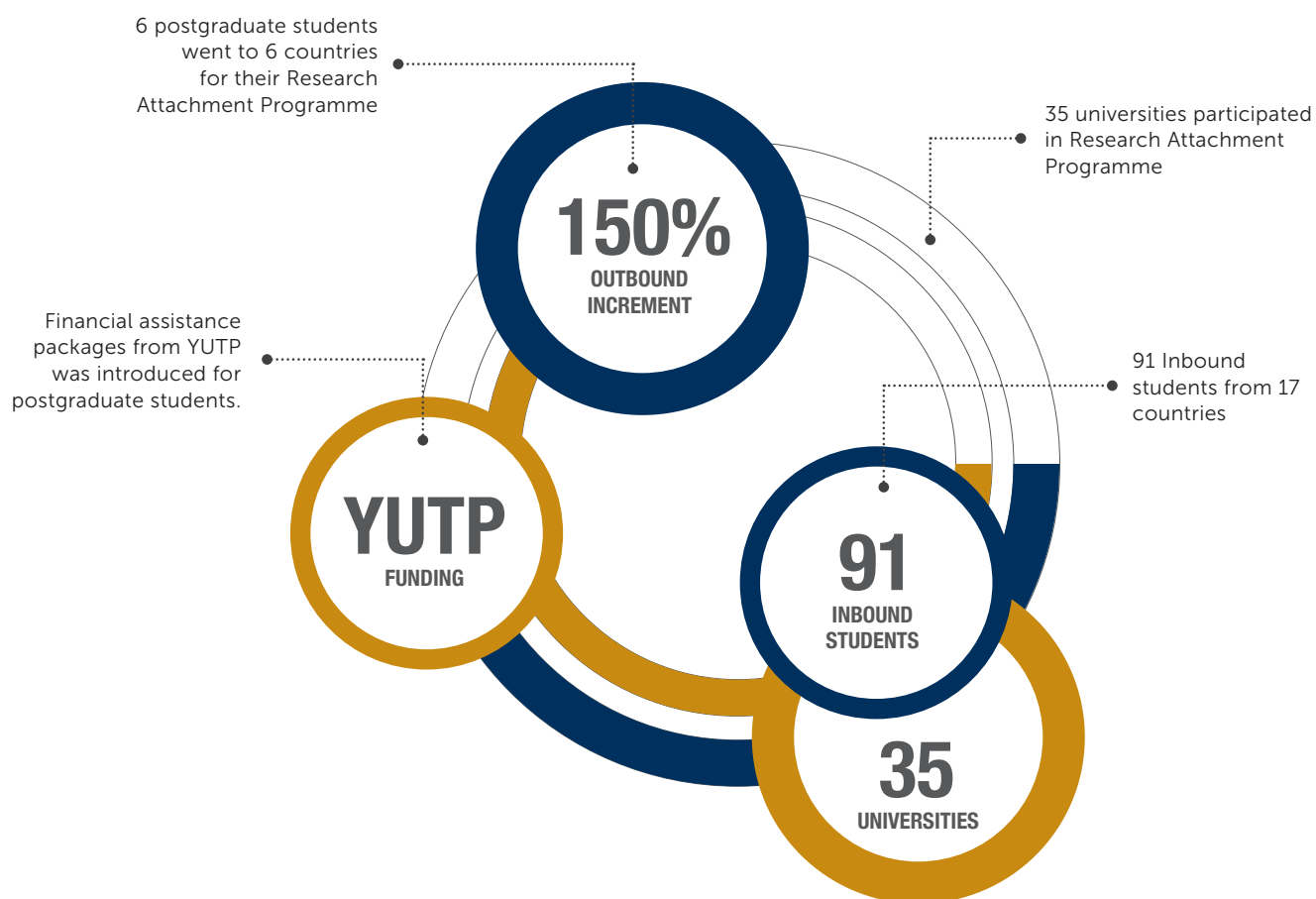


CENTRE FOR STUDENT INTERNSHIP, MOBILITY AND ADJUNCT LECTURESHIP (CSIMAL)

STUDENT EXCHANGE / PROGRAMME

HOME UNIVERSITY	HOST UNIVERSITY
Universite de Bourgogne, France	Missouri S&T University, USA
Université Paris-Sud (IUT de Sceaux) France	West Virginia University, USA
Missouri S&T University, USA	Sungkyunkwan University, South korea
North-Caucus Federal University, Russia (GE4 partner)	Bilkent University, Turkey
Université Paris-Sud (IUT de Cachan), France	Middle East Technical University, Turkey
Universiti Brunei Darussalam, Brunei	Lehigh University, USA
University of Pittsburgh, USA (GE3 partner)	University of Wyoming, USA (Global UGRAD Programme)
The Petroleum Institute, UAE	China University Of Petroleum (East China), China

RESEARCH ATTACHMENT PROGRAMME



ENTREPRENEURSHIP & TECHNOPRENEURSHIP

One of UTP's 7 Attributes of Well-Rounded Graduates is entrepreneurship awareness and skills. As educator and trainer, our goal is to equip our students with the knowledge and skills to become entrepreneurs and more importantly to nurture the spirit of entrepreneurship.

Technology and innovation by themselves serve no purpose. They need to be brought to the marketplace for all possible applications, bringing benefit to the people while rewarding the creator.

This is where UTP's Entrepreneurship and Technopreneurship initiatives come into play. Designed and formulated to take UTP Towards Global Prominence, these initiatives resulted in the birth of the university's Technopreneurship Unit under CSIMAL in September 2016. The primary operative of this unit is to develop sustainable technopreneurs via the application

of technology know-how and a disruptive and synergistic entrepreneurial mindset.

As a technology-based university, the ultimate goal is to become the university that produces the highest number of students who are involved in start-ups by 2020.

The Technopreneurship Unit organised 55 events as at the end of 2017. There were 9 competitions, 11 product and innovation related events and 46 talks and seminars. We also conducted 10 courses/workshops targeted at enhancing skills in current technology throughout 2017 with the participation of more than 2,800 students.



+ 16 STARTUPS
UNDER DEVELOPMENT

+ 8 STARTUPS
PRODUCED

55 EVENTS **+**
ORGANISED/PARTICIPATED

RM210,000 **+**
CUMULATIVE FUND RECEIVED

24 TEAMS **+**
MICROBIZ & TECHNOSEED
FUND RECIPIENTS

2800 **+**
STUDENTS
INVOLVED

7 AWARDS **+**
IN INNOVATION EVENTS

4 AWARDS **+**
IN BIZ COMPETITIONS

+ 5 TECHNOPRENEURS
UNDER DEVELOPMENT



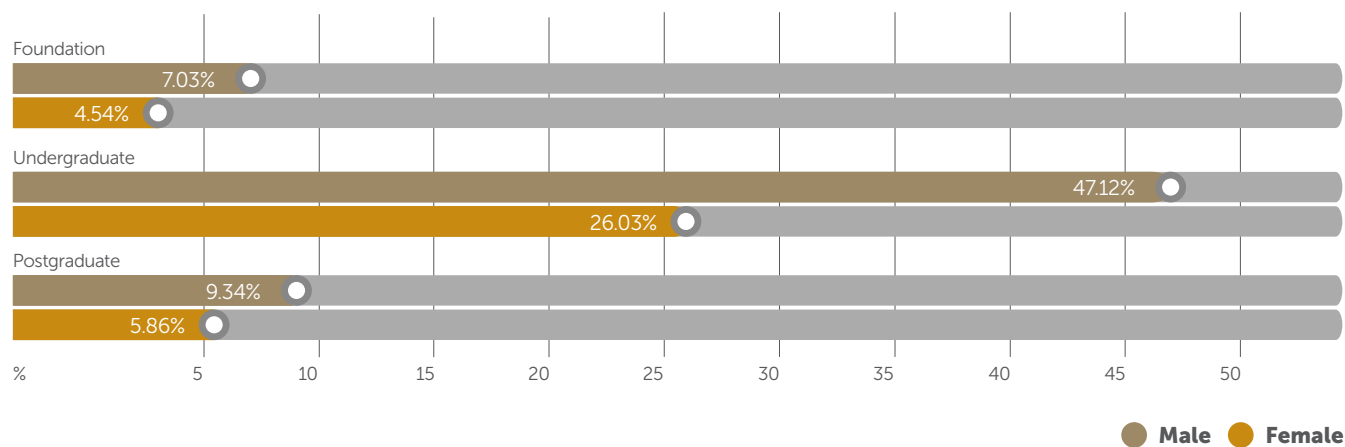
STUDENT ENROLMENT DATA

Programme (Foundation)	Local	International	Total
Applied Chemistry Foundation	20	0	20
Applied Physics Foundation	16	0	15
Business Information System Foundation	50	2	52
Chemical Engineering Foundation	285	4	289
Civil Engineering Foundation	64	1	55
Computer Engineering Foundation	21	0	21
Electrical & Electronic Foundation	63	3	66
Information & Communication Technology Foundation	91	2	93
Mechanical Engineering Foundation	217	2	219
Petroleum Engineering Foundation	83	0	83
Petroleum Geoscience Foundation	38	0	38
Grand Total	937	14	951

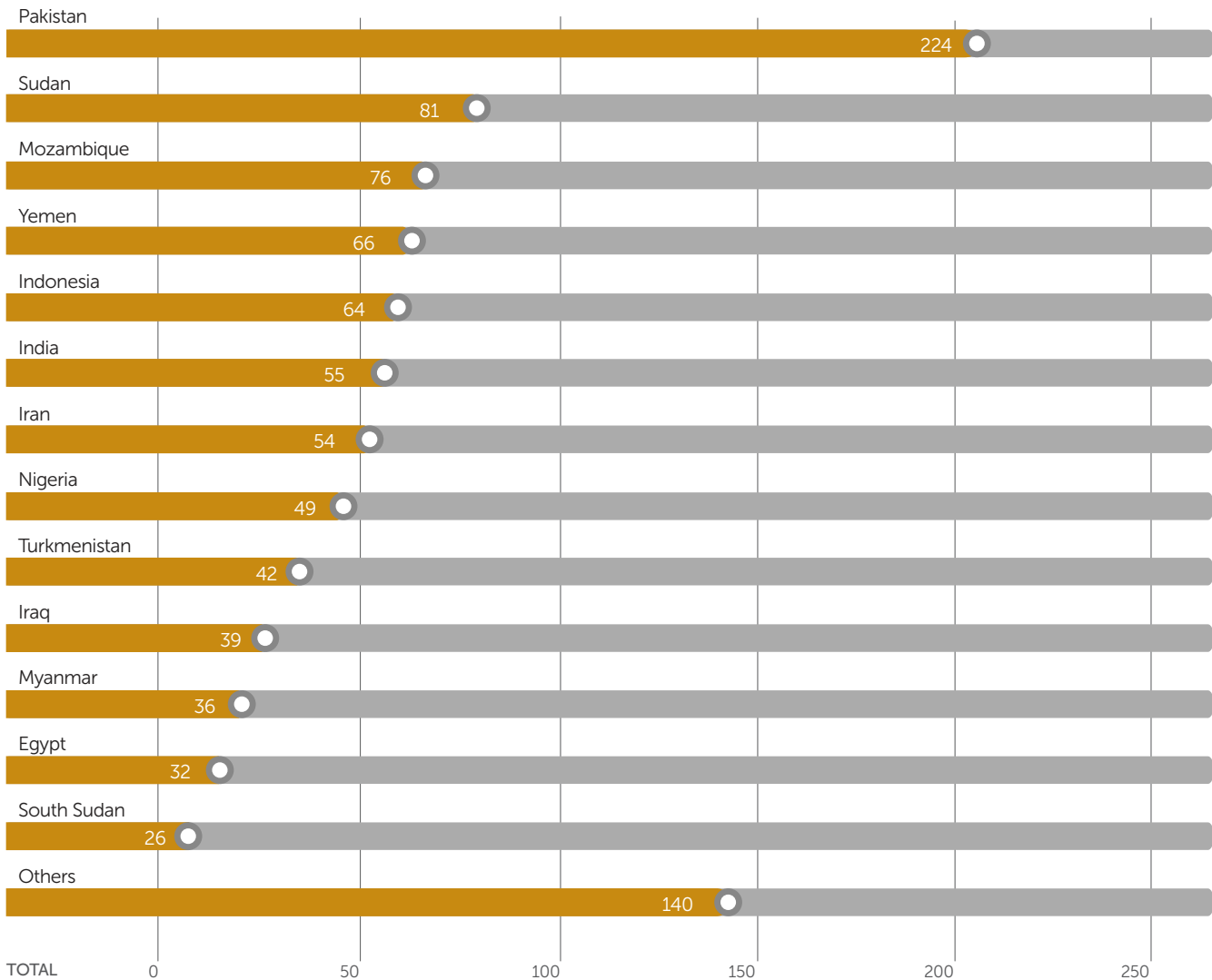
Programme (Undergraduate)	Local	International	Total
Bachelor of Eng (Hons) Chemical Engineering	1037	46	1132
Bachelor of Eng (Hons) Computer Engineering	25	1	26
Bachelor of Eng (Hons) Electrical and Electronics	681	37	718
Bachelor of Eng (Hons) Mechanical Engineering	1043	58	1101
Bachelor of Eng (Hons) Petroleum Engineering	683	184	767
Bachelor of Engineering (Hons) Civil	617	31	648
Bachelor of Science (Hons) in Applied Chemistry	104	0	104
Bachelor of Science (Hons) in Applied Physics	51	0	51
Bachelor of Technology (Hons) Business Information System	391	12	403
Bachelor of Technology (Hons) Information and Communication Technology	414	18	432
Bachelor of Technology (Hons) Petroleum Geoscience	566	44	610
Grand Total	5562	430	5992

Programme (Postgraduate)	Local	International	Total
Master in Science	46	4	50
MBA in Energy Management	10	0	10
MPhil in Social Science and Humanities	9	4	13
MPhil in Management	5	5	10
MSc in Asset Management and Maintenance	19	0	19
MSc in Chemical Engineering	85	18	103
MSc in Civil Engineering	44	15	59
MSc in Drilling Engineering	0	0	0
MSc in Electrical and Electronic Engineering	36	17	53
MSc in Electronic System Engineering	2	0	2
MSc in Information Technology	36	3	39
MSc in Mechanical Engineering	49	24	73
MSc in Offshore Engineering	4	0	4
MSc in Petroleum Engineering	24	38	62
MSc in Petroleum Geoscience	64	10	74
MSc in Process Integration	5	0	5
MSc in Process Safety	3	0	3
PhD in Chemical Engineering	36	61	97
PhD in Civil Engineering	27	53	80
PhD in Electrical and Electronic Engineering	42	73	115
PhD in Information Technology	37	43	80
PhD in Management	22	23	45
PhD in Mechanical Engineering	36	69	105
PhD in Petroleum Engineering	16	16	32
PhD in Petroleum Geoscience	9	22	31
PhD in Science	27	36	63
PhD in Social Science and Humanities	15	6	21
Grand Total	708	540	1248

Student Population by Gender



INTERNATIONAL STUDENT POPULATION - BY COUNTRY



Total number of
International students

984

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ACADEMIC DIARY

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RM8.52 MILLION WORTH OF SOFTWARE FROM PETROLEUM EXPERTS LIMITED

31 January 2017

UK-based engineering company Petroleum Experts Limited generously donated RM8.52 million (£1.56 million) worth of academic licences for its software to UTP. This will now enable students from the Faculty of Geoscience and Petroleum Engineering to have access to the company's Integrated Production Modelling (IPM) software, a suite of tools which includes, among others, GAP (Multiphase Network Optimisation), PROSPER (Well

Modelling and Design) and MBAL (Reservoir Analytical Simulation).

With IPM being the industry standard for integrated field modelling and production optimisation, students will be able to improve their proficiency and skills, with the added advantage of having the competitive edge when entering the workforce upon graduation.



RISING UP IN QS RANKINGS

10 March 2017

UTP's standings in the QS Rankings is steadily on the increase, and as the end of 2017, the university is among the world's elite in four of the 46 subjects and in one subject area (category).

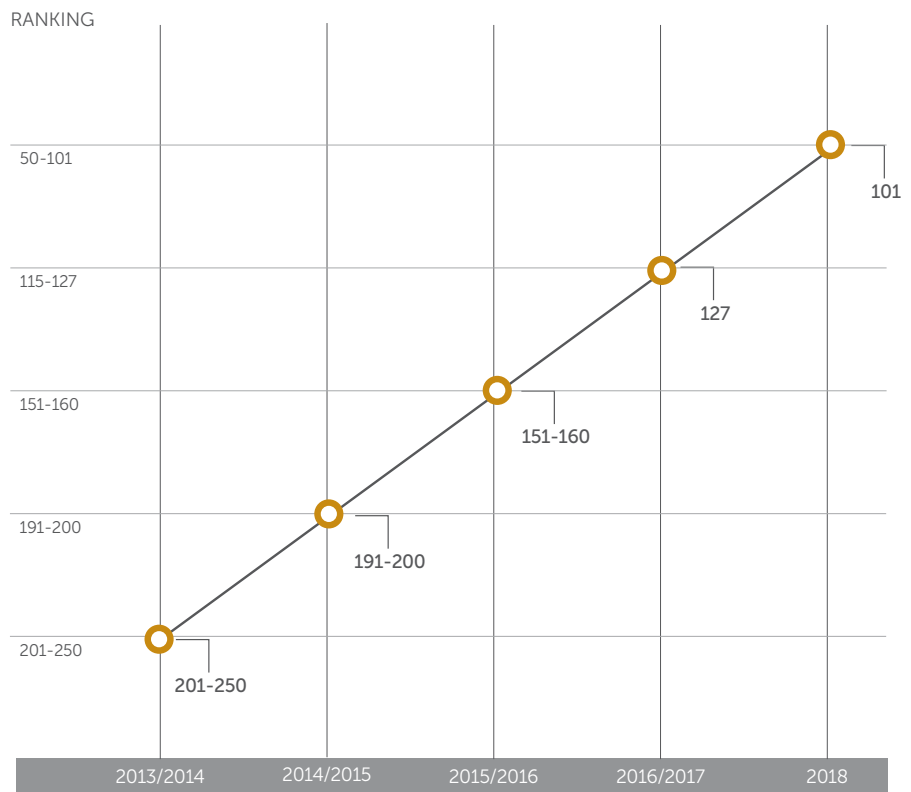
These are our standings and improvements :



Simultaneously, UTP has made much headway in the QS Asia University Rankings (QS AUR) 2018, now coming in at the TOP 101, by a lead of 26 places. This places UTP in the top 1% of universities out of some 11,900 in Asia.

UTP is ranked 1st in Malaysia and 18th in the region for Papers per Faculty. The university also ranked 2nd in the country for the International Faculty Ratio.

The QS AUR evaluated 400 institutions from 17 countries.



UTP's ranking in AUR over the past 5 years

GRADUATION CEREMONY

15 October 2017

The 2017 Convocation Ceremony was UTP's 17th Commencement Event. A total of 1,250 students walked across the stage to receive the scrolls of achievement, and they walked away with 1,044 Bachelors, 110 Masters and 96 PhD degrees respectively.

tradition, special Chancellor Awards were also presented to outstanding students. In conjunction with the 20th anniversary celebrations, the previous Chancellor Award recipients were also honoured once again.

They received their scrolls from UTP Pro Chancellors, Tan Sri Sidek Hassan and Tan Sri Wan Zulkiflee Wan Ariffin. As per UTP



SOFTWARE FROM HALLIBURTON

20 October 2017



Halliburton has given a multimillion ringgit software grant to UTP, providing access to the latest industry software in geosciences, engineering and analytics.

Provided by Halliburton Landmark, this would enable students to apply scientific and theoretical principals to real-world scenarios, offering them practical experiences in preparation for the working environment. They would be better able to understand programmes that help engineers locate, extract and produce oil and gas.

Through its University Software Grant Programme, Halliburton fosters strategic academic relationships and supports education and research by contributing software to more than 200 universities worldwide.

AWARD-WINNING EDUCATIONAL IDEAS

20 November 2017

The UTP team - AP Dr Suriati Sufian (leader), Dr Muhammad Syafiq Hazwan Ruslan and Dr Shafirah Shamsuri - emerged as 1st Runner Up in the inaugural Reimagining and Redesigning Malaysian Higher Education Awards 2017 with their novel way of teaching engineering innovation in the Transformative Teaching Without Learning category.

Their winning idea was the Chem-E-Car Challenge, an integrated learning opportunity that encompasses three courses (Principles of Chemical Engineering, Chemical Engineering Fluid Mechanics and Introduction to Thermodynamics). This requires students to build a working prototype vehicle implementing the engineering principles from all three areas.

Students are then assessed through the application of the CDIO (Conceive-Design-Implement-Operate) initiative, with two pedagogical frameworks (Challenge Based Learning and Project Based Learning).

UTP's project was among the 90 submitted, of which 27 were shortlisted, and was the only engineering teaching innovation that won an award.



This MOHE award is aimed at identifying, recognising and sharing best practices of projects and initiatives that have been implemented either at institute or individual levels in the following categories:

- 1) Innovative Studies Programme Curriculum
- 2) Transformative Teaching Without Lecture
- 3) Interactive Lecture Teaching Transformative
- 4) Virtual Imperative Learning Experience
- 5) Blended Immersive Learning Experience
- 6) Experienced Learning Experience Face to Face

RECOGNISED BY THE ACADEMY OF SCIENCES MALAYSIA

21 December 2017

UTP is proud to announce that we now have six of our esteemed academic staff members in the coveted list of the Academy of Sciences Malaysia (ASM), with four new entrants for 2017. The four academics / scientists who were recognised by ASM in 2017 are:

i) **Prof Dr Azmi Mohd Shariff** - Chemical Engineering - CO₂ Separation Process, Process Safety



ii) **Prof Ir Dr Suzana Yusup** - Biomass Conversion to Biofuel and Biochemicals, Adsorption and Reaction Engineering



iii) **Ir Dr Khor Cheng Seong** - Process Systems Engineering in Modelling and Optimising Techniques for Process Design and Operations of Sustainable Energy and Water Systems



iv) **Assoc Prof Dr Shahrina Md Nordin** - Innovation Diffusion, Social Innovation and Education



They follow in the footsteps of Prof Dr Norani Muti Mohamed FASc (Mathematical and Physical Sciences), Professor Dr Mohamed Ibrahim Abdul Mutalib FASc (Engineering & Computer Sciences) who are ASM Fellows.

Prof Dr Azmi was appointed as a lifetime Fellow in 2017, recognised for his expertise in Chemical Engineering, specifically for the CO₂ Separation Process and Process Safety.

Prof Ir Dr Suzana and Ir Dr Khor were reappointed as associates for the April

- 2017 - March 2019 term. This is their second consecutive term, having been inducted into this list in April 2015 for 2 years. Prof Ir Dr Suzana and Ir Dr Khor are attached to UTP's Chemical Engineering Department.

Meanwhile Assoc Prof Dr Sharina became an Associate in the discipline of Social Sciences. She is UTP's Director of Project Management Office, and a lecturer in the Management and Humanities Department. Her areas of expertise are Corporate Communication, Organisational Communication, Business Communication, Teaching English as a Second Language and Second Language Writing.

A REVIEW BY THE DEPUTY VICE CHANCELLOR, RESEARCH AND INNOVATION

PROFESSOR IR DR MOHD SHAHIR LIEW

Innovation is the economic currency of the next century; and this is the reality that we have to align ourselves with. With 20 years under our belt, and already established as a key centre for technology education in Malaysia, we are now ready to move on to the next phase of our development.

In reviewing the Research & Innovation Division (R&I) for 2017, I would say that it was primarily a year for consolidating efforts and plans that have been set in motion to date and optimising existing facilities and resources for the implementation of a new innovative direction towards sustainability.

To achieve the new goals and aspirations of the university going forward, R&I will play a primary role as we reinvent ourselves to strengthen UTP's position as a provider of practical and innovative solutions. We are indeed reinventing the wheel - our wheel - to propel further into the future.

Administrative Analysis

One of the key initiatives for the year was the redefining and realigning of our research activities. UTP's R&I activities now fall under two focus areas which we have identified as Smart Communities and Energy Sustainability.

This current business model, which came into effect in September, was mapped against the United Nations' 17 Sustainable Development Goals for which there are 52 themes. Of these we chose the two that we do best and where we know we can positively contribute for meaningful change and effect.



We now have six primary research institutes:

Smart Communities:

- (i) Institute of Self Sustainable Living
- (ii) Institute of Transport Infrastructure
- (iii) Institute of Health and Analytics

Energy Sustainability:

- (i) Institute of Autonomous System
- (ii) Institute of Containment Management
- (iii) Institute of Hydrocarbon Recovery

UTP's 15 research centres and 36 research groups are parked under these six institutes and the plan is for all the institutes to move and progress from the fundamental research stages of TRL 1- 3, to pre-commercialisation and upscaling at TRL 4 - 6 and ultimately to TRL 7 & 8 of commercialisation.

Meanwhile, to date, we have 627 intellectual properties and have filed 437 patents of which 57 have been granted. Additionally, 25 of our technological ideas have been commercialised to the tune of more than RM650,000.

In the past, we focussed primarily on fundamentals and less on commercialisation efforts. We now need to consolidate these efforts and take our research into the proof of concept and pre-commercialisation levels. For this we are working diligently with industry and I am glad to say we are getting very encouraging responses.

In fact, as of 2017, we generated 125 viable products and currently about two-thirds of our products are at the pre-commercialisation stage and we expect more of our ideas to be commercialised next year.

We also instituted what we call Technology Day at industry level. This is where we pitched our products, bringing them to the attention of the marketplace and bridging the gap between UTP and industry. This is a new initiative towards heightening our commercialisation efforts.

As far as R&I participation of our academics go, our principal investor rate stands at 97% among our 420 staff. This is quite a commendable figure and I am also proud to say that we are doing quite well for ourselves in terms of securing grants and funding and we stand on our own merit.

In 2017, UTP secured more than RM110 million in research grants. This is significantly higher than our average of around RM40 million each year, a good start indeed to herald our next phase of development after our 20th birthday. In turn, we also generated some RM10 million from our research and consultancy work and expect this to grow significantly.



Future Direction

We have indeed done well. We have two High CoE's and a number of our researchers have made a name for themselves both locally and internationally, winning significant awards and enhancing credibility.

UTP also has a strong working culture and we have been forward thinking in the implementation of ideas and strategies. In terms of preparation, we are ready to take on research issues related to our areas or expertise and we can create proposals for solutions in a short period of time.

Our industry engagement to date have brought us to a level where we understand the needs of industry and more importantly, we know how to work with them and alongside them. The key now is to raise this engagement to a higher level and this will be our formula for success towards the future.

This is also important as we remain committed to nation building, especially in the light of Industry 4.0. Research done with a mindset of social responsibility will be all the more valuable for the growth of our nation while also probing solutions for global issues as we look at sustainable and green technology products and research.

UTP has come a long way in 20 years and we have especially leapt forward in the past three years, in academics as well as research. This year, we took a big step towards a very positive new direction and our aspiration going forward is simply this - moving towards a sustainability model for future income generation.



Setting things in motion, we have developed a 4-pronged approach. Firstly, we have our Centre for Advanced Professional Education in KL which offers various enhancement courses and programmes to industry and the workforce.

Secondly, we are focussing more on consultancy work and we have de-capped the limit of consultancy work our academicians can participate in. This will benefit both our academics and the university, bringing in revenue and raising UTP's standing while taking our expertise to the marketplace.

We are also planning to offer UTP's high-end technology and equipment for testing services to selected industries.

Then of course, most importantly, we will be stepping up product commercialisation efforts



which will be led by FutureTech Sdn Bhd, a company UTP has created to direct and propel commercialisation activities. Some 20% of our researchers are very tenacious and we can look forward to exciting contributions from them.

Basically, we are trying to create a business mindset among our researchers, steering them towards a business approach instead of indulging in research merely as an academic or scientific exercise. It is a matter of thinking outside the box and venturing into the Blue Ocean. To put into the perspective of our industry, it is looking at brownfields with a blue ocean strategy.

While this is a little bit of a challenge, it is

about encouraging them to work in a multi-disciplinary mode. Scientists cannot work in isolation any more as everything is connected to everything, we are co-dependant and have similar goals and purposes.

Bearing in mind that the agenda is also to go global we want to collaborate with international parties in our research endeavours. With the playing field in Malaysia deemed saturated with six universities - of which we are the only private entity - heavily into research, looking outward not only makes sense, but is also favourable and advantageous for the university and the country.

Another thing we need is clear succession planning. While, we want knowledgeable

minds that come with years of experience we also need the younger ones to be able to step up to the plate at a moment's notice. This is wisdom applied to ensure future sustainability.

Ultimately, the name of the game is playing to win. Everything we do has to have a purpose and a benefit for the university. It's all about adding value to our activities and receiving due recompense and recognition for good work.

We see ourselves as a pace setter for industry initiatives, we are here to stay, to play hard and to win. The goal: to be the top research university in Asia.



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**RESEARCH & INNOVATION
DIARY**

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MEDAL WINS AT THE MALAYSIAN TECHNOLOGY EXPO 2017

16 - 18 February 2017

UTP clinched six medals at the annual Malaysia Technology Expo (MTE) 2017 - 4 Gold, 1 Silver and 1 Bronze, plus 1 Special Award.

Organised by the Malaysian Association of Research Scientists (MARS) this year's event attracted more than 200 inventions, showcasing innovative talent. It is also a

platform that allows inventors and investors to come together for an exchange of ideas and product feasibility discussions for commercialisation.



MALAYSIA TECHNOLOGY EXPO 2017 (MTE 2017)

16 - 18 February 2017

No.	Inventor	Invention Title	Medal
1.	Assoc Prof Dr Wan Fatimah Wan Ahmad	Autism Social-Aid	Gold The Best Award
2.	Prof Dr Noorhana Yahya	Next Generation Green and Economical Urea	Gold
3.	Prof Dr Azmi Mohd Shariff	High Performance Green Solvent For CO2 Capture	Gold
4.	Assoc Prof Dr Zahiraniza Mustaffa	Pipeline Reliability and Integrity Assessment (PRIA)	Gold
5.	Assoc Prof Dr Bashar S Mohammed	TherecoBlock™	Silver
6.	Assoc Prof Dr Ahmad Majdi Abdul Rani	Spiral Track Gauge Polycrystalline Diamond Compact (PDC) Bit	Bronze
7.	Assoc Prof Dr Dayang Rohaya Awang Rambli	AR Hijabistyle: Hijab	Bronze
8.	Assoc Prof Dr Dher Mohammed Badri Albarody	Ball Socket Pipeline Jacket for Subsea flowlines Protection Systems	Bronze
9.	Dr Montasir Osman Ahmed Ali	MoorOpt14	Bronze
10.	Dr Muhammad Moniruzzaman	Ionic Liquid Assisted Pretreatment Of Oil Palm Biomass For Fiberboard Manufacturing	Bronze



BIOPESTICIDE FOR THE PADDY FIELDS

8 March 2017



Associate Professor Dr Suzana Yusup led a team of five lecturers and 15 students to successfully develop a unique biopesticide for the paddy fields.

This organic-based pesticide, developed under UTP's CSR programme, has successfully proven that organic insecticides can protect the paddy plants from insects such as the brown plant hopper, locusts and bugs. This would translate to higher yields as losses would be reduced from insect damage. Additionally, as it is made from plants, the organic compound would not affect consumer health or the environment.

Dr Suzana won the second place in the Elsevier Green and Sustainable Chemistry Challenge 2016 held in Berlin, Germany for her efforts.



A 27-MEDAL HAUL AT THE SIRIM EXPO

18 - 19 August 2017

UTP created history when all 27 of the university's exhibits won medals at the SIRIM Invention, Innovation & Technology Expo (SI2TE) 2017. It was a bumper haul of 13 Gold, 11 Silver and 3 Bronze medals as well as three special awards.

SI2TE is an expo organised by SIRIM Industrial Research and SIRIM Berhad and supported by the Ministry of Science, Technology and Innovation (MOSTI), Malaysia. It highlights research products and promotes the culture of research and innovation, not only among SIRIM members and industrial players but also among participants from local and foreign institutions of lower and higher education.



SIRIM INVENTION, INNOVATION & TECHNOLOGY EXPO 2017 (Si2TE 2017)

18 - 19 August 2017

No.	Inventor	Invention Title	Medal
1.	Mohd Faizairi Mohd Nor	Rural Run River Pico Hydro (R3PH)	Gold Si2TE Best of The Best Award
2.	Prof Dr Noorhana Yahya	Next Generation Green and Economical Urea	Gold Si2TE Best of The Best Award
3.	Assoc Prof Dr Shamsul Rahman Mohamed Kutty	Integrated Suspended Growth Reactor (i – SGBR)	Gold
4.	Assoc Prof Dr Ahmad Majdi Abdul Rani	Slip On Sprocket	Gold
5.	Assoc Prof Dr Bashar S Mohammed	TherecoBlock™	Gold
6.	Assoc Prof Dr Mohd Haris Md Khir	ELECTRO-POWER	Gold
7.	Dr Noreen Izza Arshad	Elderband & Elderalert	Gold
8.	Assoc Prof Ir Dr Zuhairi Hj Baharudin	RF MEMS Tunable Filter	Gold
9.	Prof Dr Norani Muti Mohamed	Stand Alone Solar Panel for Hydrogen Production	Gold
10.	Assoc Prof Dr Mohamed Hasnain Isa	Anaerobic-Coupled Integrated Anoxic Aerobic Reactor (AN-ISA REACTOR)	Gold

No.	Inventor	Invention Title	Medal
11.	Assoc Prof Dr Khamaruzaman Wan Yusof	INDRA Smart Storm Drainage Unit	Gold
12.	Assoc Prof Dr Faiz Ahmad	Biocompatible Modified 316L Stainless Steel Dental Implants	Gold
13.	Assoc Prof Dr Faiz Ahmad	Nanocomposite Heat Sink for LED Light Applications	Silver
14.	Assoc Prof Ir Dr Nursyarizal Mohd Nor	On-Line Monitoring For Domestic Distribution Box (AUPRESS)	Silver
15.	Assoc Prof Dr Tang Tong Boon	Brain Navi	Silver
16.	Assoc Prof Dr Wong Peng Wen	Dual Band Interdigital Filter	Silver
17.	Assoc Prof Dr Ahmad Kamil Mahmood	RESCUE-I Monitoring System for Fireman	Silver
18.	Dr Aamir Hussain Bhat	Biopolymer Blend Of PLA And PHBV Based Nanobiocomposites For Packaging Applications.	Silver
19.	Prof Dr Nasir Shafiq	Green Nano Silika Gel Extracted From Sugarcane Bagasse	Silver
20.	Prof Dr Nasir Shafiq	Petro Ash Cement	Bronze

GREAT SUCCESS AT ITEX

11 - 13 May 2017

All 32 exhibits that UTP showcased at the International Invention, Innovation and Exhibition (ITEX) 2017, were honoured with medals, comprising 23 Gold and 9 Silver. Two special awards were also in the list. One was the special Patron Award from the Ministry of Science, Technology and Innovation (MOSTI) for winning the highest number of awards and the second was the International Federation of Inventors' Associations award for Professor Dr Noorhana Yahya's research on Next Generation Green and Economical Urea.

The region's leading expo on inventions and innovations, ITEX is an annual event that brings together the best research work and the most brilliant minds from all over the world. It is a platform for showcasing new ideas and products to bring investors and scientists together.

ITEX 2017 attracted participants from Bahrain, China, Egypt, England, Germany, Hong Kong, Indonesia, Iran, Korea, USA, Taiwan, Sri Lanka and Thailand, among others.



28TH INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION 2017 (ITEX 2017)

11 - 13 May 2017

No.	Inventor	Invention Title	Medal
1.	Prof Dr Noorhana Yahya	Next Generation Green and Economical Urea	Gold IFIA Award - International Federation of Inventors' Associations
2.	Dr Montasir Osman	Optimisation Numerical Tool for Semisubmersible Mooring Lines Parameters	Gold
3.	Assoc Prof Dr Lau Kok Keong	CUAS: Compact Ultrasonic Absorption System for efficient gaseous separation	Gold
4.	Assoc Prof Dr Ahmad Majdi Abdul Rani	Spiral Track Gauge PDC Bit	Gold
5.	Assoc Prof Dr Ahmad Majdi Abdul Rani	Functional Metal Prototype of Slip-on Sprocket	Gold
6.	Assoc Prof Dr Nurlidia Mansor	THIOMAX Fertilizer Additives	Gold
7.	Assoc Prof Dr Faiz Ahmad	Nanocomposites Heat Sink for Led Application	Gold
8.	Dr Dher Mohammed Albarody	Ball Socket Pipeline Jacket for Subsea flowlines Protection Systems	Gold
9.	Prof Ir Dr Muhd Fadhil Nuruddin	Plastic & Paper Waste Geopolymer Brick (ppwGeoBric)	Gold
10.	Prof Ir Dr Muhd Fadhil Nuruddin	Microwave Electromagnetic System for Geopolymer Concrete testing (EMgeoNDT)	Gold
11.	Assoc Prof Dr Suzana Yusup	Natural Hydro-Low-Transition-Temperature Mixture (NH-LTTM) As Sustainable Green Solvent For Biomass Delignification	Gold
12.	Assoc Prof Dr Shamsul Rahman Mohamed Kutty	Integrated Suspended Attached Growth Bioreactor System (I - SAGS)	Gold

No.	Inventor	Invention Title	Medal
13.	Assoc Prof Dr Khamaruzaman Wan Yusof	24 Hours Constant Drinking Water Production Using A Solar Still With A Solar Power System	Gold
14.	Ir Dr Suhaimi Hassan	Development of Potential Solid Fuel Briquette from Poultry Sludge Waste in Malaysia	Gold
15.	Assoc Prof Dr Mohamed Hasnain Isa	Petro Ash Cement	Gold
16.	Prof Dr Hilmi Mukhtar	A Novel Asymmetric Mixed Matrix Nanofiltration Membrane (MMM) for Water Purification	Gold
17.	Prof Dr Nasir Shafiq	Green Nano Silika Gel Extracted From Sugarcane Bagasse	Gold
18.	Assoc Prof Dr Bashar S Mohammed	Green Nano-silica Modified ECC	Gold
19.	Assoc Prof Ir Dr Mokhtar Awang	WC-DLC Tool	Gold
20.	Assoc Prof Dr Wan Fatimah Wan Ahmad	Autism Social-Aid	Gold
21.	Dr Mior Azman B Meor Said	Thermal Electrical Generator System (TEGS) for Small Passenger Car	Gold
22.	Prof Dr Fabrice Meriaudeau	Smart Veins Locator with Depth and Thickness Information	Gold
23.	Assoc Prof Ir Dr Rosdiazli Ibrahim	General Neural Network Tool for Fast and Efficient Industrial Data Analytics	Gold
24.	Prof Dr Abdul Rashid Abdul Aziz	A Novel Device for the Measurement of Complex Flow in the Cylinder of Internal Combustion Engines	Silver
25.	Assoc Prof Dr Tang Tong Boon	Capacitance Sensor for Use in Measuring Liquid Holdup	Silver

No.	Inventor	Invention Title	Medal
26.	Assoc Prof Dr Suzana Yusup	Methyl Esters Synthesis and Purification via Integrated Reactive Distillation Column	Silver
27.	Prof Dr Azmi Mohd Shariff	High Performance Green Solvent For CO ₂ Capture	Silver
28.	Assoc Prof Dr Suriati Sufian	Solar-Driven Water Purification Technology (SWAPT)	Silver
29.	Prof Dr Hilmi Mukhtar	Battery Operated Water Filtration Prototype Unit for Water Purification Applications	Silver
30.	Assoc Prof Dr Ismail Mohd Saaid	Alternative Permeability Modifier	Silver
31.	Dr Syahrir Ridha	Drill-GeoCem for CO ₂ Acidic Wells & Constructions	Silver
32.	Dr Airil Yasreen Mohd Yassin	Dr Airil's T&L Soft - 3D Frame	Silver



PECIPTA 2017

7 - 9 October 2017

UTP submitted 16 innovative products to the International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA) 2017 and brought back 1 Special Award and 12 medals - 3 gold, 6 silver and 3 bronze.

Organised by the Ministry of Higher Education since 2001, PECIPTA is a stage for public and private universities to competitively display ideas and innovations at national and international levels. It also enhances networking and collaboration

between participants, industry and other potential players in the bid to improve and commercialise products.



INTERNATIONAL CONFERENCE AND EXHIBITIONS ON INVENTIONS BY INSTITUTIONS OF HIGHER LEARNING (PECIPTA 2017)

7 - 9 October 2017

No.	Inventor	Invention Title	Medal
1.	Prof Dr Noorhana Yahya	Next Generation Green and Economical Urea	Gold PECIPTA 17 Special Award
2.	Dr Montasir Osman	Optimisation Numerical Tool for Semisubmersible Mooring Lines Parameters	Gold
3.	Dr Dher Mohammed Albarody	Ball Socket Pipeline Jacket for Subsea flowlines Protection Systems	Gold
4.	Assoc Prof Dr Nurlidia Mansor	THIOMAX Fertilizer Additives	Silver
5.	Assoc Prof Dr Wan Fatimah Wan Ahmad	Mobile App Using Video Modelling : Autism Social-Aid	Silver
6.	Assoc Prof Dr Shamsul Rahman Mohamed Kutty	i-SGBR Integrated Suspended Growth Bio Reactor)	Silver
7.	Assoc Prof Dr Ahmad Majdi Abdul Rani	3DP Spiral Track Gauge PDC Bit	Silver
8.	Prof Dr Nasir Shafiq	Green Nano Silika Gel Extracted From Sugarcane Bagasse	Silver
9.	Assoc Prof Ir Dr Mokhtar Awang	WC-DLC Tool	Silver
10.	Assoc Prof Dr Mohamed Hasnain Isa	Petro Ash Cement	Bronze
11.	Prof Dr Hilmi Mukhtar	A Novel Asymmetric Mixed Matrix Nanofiltration Membrane (MMM) for Water Purification	Bronze
12.	Assoc Prof Dr Irraivan Elamvazuthi	i-WAvE (Integrated Wearable Arm Exoskeleton)	Bronze
13.	Assoc Prof Dr Faiz Ahmad	Modified 316L SS for Dental Implant	Bronze

RECOGNITION FOR DR SUZANA YUSUP

5 October 2017

Associate Professor Dr Suzana Yusup won the 2017 Malaysia's Research Star Award and National Research Publications Incentive Scheme (CREAM) Status Award under the category Highly Cited Review for Women in Science Award for the second consecutive year.

These recognitions and commendations acknowledge Malaysian researchers at the international level for their efforts in publishing high impact articles in various fields and for receiving the highest number of citations by researchers worldwide. Attached to the Chemical Engineering Department, Dr Suzana pioneers the establishment of the Biomass research facilities in UTP. She is deeply passionate about both research and academia, and has received more than 35 research product awards from Malaysia, Japan, Belgium and the USA.

She has also won various important awards, which include, among others, second prize in the Elsevier Green and Sustainable Chemistry Challenge (2016), Asia Research Award (2012) and Creativity Award Geneva (2011).



UTP'S THIRD NATIONAL TECHNOLOGIST AWARD

16 October 2017

UTP technologist Noor Azwan Ahmad became the third consecutive winner of the Anugerah Inovasi Negara when he clinched the award for 2017. He proudly follows in the footsteps of Adz Jamros Jamali and Saiful Hisham Samsudin who carried it through our doors in 2015 and 2016 respectively.

Noor Azwan was rewarded for his work on the RF MEMS Based Tunable Bowtie Shaped Substrate Integrated Waveguide Filter.

Having worked with UTP since 2003, he is today a Senior Technologist and he oversees the general operations of three research labs in the telecommunication engineering department and one in the radio frequency engineering section. Noor Azwan's work has won him the gold medal in UTP's Science & Engineering Design Exhibition (SEDEX), as well as the International Invention Innovation & Technology Expo (ITEX) 2017. The core of his research focus is in RF and Microwaves, filters, amplifiers, oscillators and RF Energy harvesting.



IENA 2017

2 - 5 November 2017



UTP researchers continued to excel in research and innovation when all of their six inventions won medals at the International Trade Fair Ideas Inventions New Products (iENA) 2017 held in Germany recently.

UTP bagged two gold, two silver and two bronze medals.

The iENA 2017 attracted more than 800 inventions, with participants from China, Germany, Hong Kong, India, Indonesia, Kingdom of Saudi Arabia, Korea, Malaysia, Russia, Spain and United States of America.

INTERNATIONAL TRADE FAIR IDEAS INVENTION NEW PRODUCTS (IENA 2017)

2 - 5 November 2017

No.	Inventor	Invention Title	Medal
1.	Prof Dr Nasir Shafiq	Green Nano Silika Gel Extracted From Sugarcane Bagasse	Gold
2.	Assoc Prof Dr Mohamad Naufal Mohamad Saad	Wearable Smart Veins Locator	Gold
3.	Assoc Prof Dr Shamsul Rahman Mohamed Kutty	Integrated Suspend Growth Bioreactor (i-SGBR)	Silver
4.	Assoc Prof Dr Wan Fatimah Wan Ahmad	Autism Social-Aid	Silver
5.	Prof Ir Dr Muhd Fadhil Nuruddin	Plastic & Paper Waste Geopolymer Brick (ppwGeoBric)	Bronze
6.	Assoc Prof Dr Tang Tong Boon	BRAIN-NAVI	Bronze

PATENTS GRANTED

No.	Patent ID	Main Inventor	Department	Title Of Invention
1.	US9532744 B2	Ahmad Fadzil M. Hani	Electrical and Electronic Engineering	Methodology for Determining Concentration of the types of Melanin Pigment in the Skin
2.	MY-160724-A	Chong Fai Kait	Fundamental Applied Sciences	System for Photodegradation of High Diisopropanolamine (DIPA) Concentration in Wastewater Treatment in the Presence of Photodegradation Catalyst and Hydrogen Peroxide
3.	MY-161106-A	Zakaria Man	Chemical Engineering	Lignin Based water Releasing Fertilizer and Method of Synthesizing The Lignin Based Water Releasing Fertilizer
4.	MY-163095-A	Norani Muti Mohamed	Fundamental Applied Sciences	Synthesis Of Aligned Carbon Nanotubes Array For Pressure Sensing Application
5.	MY-162644-A	Ruzaimah Nik Mohd Kamil	Fundamental Applied Sciences	Barite Sag Prevention Using Ester-based Synthetic-based fluids
6.	MY-162840-A	Noorhana Yahya	Fundamental Applied Sciences	Regeneration of Ionic Liquids for Recycling Purposes by Carbon Nanotube Fiber (CNTF)
7.	MY-161555-A	Nasir Shafiq	Civil Engineering	Method for Manufacturing Nano-Fine Silica Ash from Sugarcane Bagasse
8.	MY-162733-A	Chong Fai Kait	Fundamental Applied Sciences	System and Apparatus for Photodegradation of Diisopropanolamine (DIPA) in Wastewater Treatment
9.	MY-162464-A	Isa Tan	Fundamental Applied Sciences	Method of Synthesizing Novel Surfactants Formulations as Foaming Agents and Their Uses
10.	MY-162736-A	Isa Tan	Fundamental Applied Sciences	Novel Surfactants as Foaming Agents for CO ₂ -EOR Applications
11.	MY-163602-A	Mohd Fadzil Hassan	Computer and Information Sciences	System and method for Detecting Multiple Unauthorized Intrusion in a closed Premise
12.	US9532744 B2	Ahmad Fadzil Mohamad Hani	Electrical & Electronic Engineering	Methodology for Determining Concentration of the types of Melanin Pigment in the Skin

PATENTS FILED

No.	Patent ID	Main Inventor	Department	Title Of Invention
1.	PI2017000674	Ismail Md Saaid	Geo Sciences And Petroleum Engineering	Polymer Grafted Bentonite and Method of Production Thereof
2.	PI2017700046	Nasir Shafiq	Civil & Environmental Engineering	Method of Quantification of CO2 Emissions during the Planning and Design Phase of Construction Project
3.	PI2017700453	Azmi M Shariff	Chemical Engineering	Enhanced Sodium L-Proline Based Solvent Blend for Carbon Dioxide Removal from Various Gas Streams at Low to High-Pressure Conditions
4.	PI2017701324	Deva Prasad Ghosh	Geo Sciences And Petroleum Engineering	Method for Identifying Overpressure Mechanisms and Top of High Overpressure Zone using Acoustic Impedance
5.	UI2017700976	Shaharin Anwar Sulaiman	Mechanical Engineering	Flow Loop Rig for Simulating the Cooling Condition of Subsea Pipeline
6.	UI2017701350	Bawadi Abdullah	Chemical Engineering	Synthesis of Supported Transition Metal Based Catalyst in Ionic Liquid for Hydrocarbon Production
7.	PI2017701586	Lukman Abdul Rahim	Computer and Information Sciences	System, Apparatus and Method for Hiding Secret Data within Cover Data
8.	PI2017701587	Lukman Abdul Rahim	Computer and Information Sciences	System, Apparatus and Method for Detecting and Correcting Data Error
9.	PI2017701588	Lukman Abdul Rahim	Computer and Information Sciences	System, Apparatus and Method for Compressing Data
10.	PI2017701617	Khamaruzaman Wan Yusof	Civil & Environmental Engineering	Solar Still for Portable Water Production and System Thereof
11.	PI2017701640	Nurlidia Mansor	Chemical Engineering	Thiosulfinate-Based Urease Inhibitor for Urea-Based Fertilizers
12.	PI2017701643	Hilmi Mukhtar	Chemical Engineering	Molecular Sieve / Polymer Mixed Matrix Membranes and Methods for Making the Same

No.	Patent ID	Main Inventor	Department	Title Of Invention
13.	PI2017701653	M Fadhil Nuruddin	Civil & Environmental Engineering	Radio-Wave Eletromagnetic System for Geopolymer Concrete Testing and A Method Thereof
14.	PI2017701656	Suzana Yusup	Chemical Engineering	A Low Transitiion Temperature Mixture (LTTM) and a Process of Preparation Thereof
15.	PI2017701925	Dher Mohammed Badri Albarody	Mechanical Engineering	Flexible Thermosetting Pipe
16.	PI2017702574	Zahiraniza Mustaffa	Civil & Environmental Engineering	Smart Flood Alarm Indicator
17.	PI2017702591	Cecilia Devi Wilfred	Fundamental Applied Sciences	Quinlinium Ionic Liquids as Electrolytes for Dye Sensitized Solar Cells (DSSCs)
18.	PI2017702643	Suriati Sufian	Chemical Engineering	Hybridization of Photoelectrochemical Cell and Dye Sensitized Solar Cell using Lightweight RGO/ BiVO4 Thin Film via Screen-Printing Process for Water Purification Technology
19.	UI2017702530	Yoshimitsu Uemura	Chemical Engineering	A Biomass Oxidative Torrefaction Process
20.	PI2017702806	William Pao King Soon	Mechanical Engineering	T-Junction for Multiphase Gas-liquid Separation
21.	PI2017702485	Maman Hermana Husen	Geo Sciences And Petroleum Engineering	Prediction of Petropyhsical Properties for Reservoir Modeling
22.	PI2017702759	Tuan Mohamad Yusoff Shah Tuan Ya	Mechanical Engineering	System and Method for Predicting Fluid Flow
23.	PI2017702892	Suzana Yusup	Chemical Engineering	Thiosulfinate-Based Urease Inhibitor for Urea-Based Fertilizers
24.	PI2017703012	Mohd Zuki Yusoff	Electrical & Electronic Engineering	Method and apparatuses for Modulation Classification in a Wireless Communication System
25.	PI2017703493	Aamir Saeed Malik	Electrical & Electronic Engineering	Decoding of Visual Information from Human Brain Using EEG
26.	PI2017703120	Vijanth S Asirvadam	Electrical & Electronic Engineering	Human Visual Perception and Cognition to Luminance Changes by Analyzing Variation in Evoke Potentials to Chromatic Stimuli

No.	Patent ID	Main Inventor	Department	Title Of Invention
27.	PI2017703504	Suzana Yusup	Chemical Engineering	A Biopesticide Composition and Method of Preparation
28.	PI2017703013	Aamir Saeed Malik	Electrical & Electronic Engineering	Monitoring of Vegetation Near Power Transmission Poles Using Satellite Radio Imagery Based on Sparse Representation
29.	PI2017703100	Bashar S Mohammed	Civil & Environmental Engineering	Geopolymer Interlocking Rubberized Bricks
30.	PI2017703274	Aamir Saeed Malik	Electrical & Electronic Engineering	Methodology of Diagnosing Depression Using Electroencephalographic Measurements
31.	PI2017703706	Zainal Ambri Abdul Karim	Mechanical Engineering	Self Cleaning Diesel Particulate Filter by Microwave Assisted Induction Heating
34.	PI2017703867	Mohammad Tazli Azizan	Chemical Engineering	Synthesis Of Solid Acid Catalysts Via Sonochemical Co-Impregnation Method For Biomass Conversion Into Green Fuel
35.	PI2017001393	Low Tan Jung	Computer and Information Sciences	A Method of Synthesizing Reversible Circuits
36.	PI2017703900	Azmi M Shariff	Chemical Engineering	TOperating Procedure Management For Process Plant Operations And IoT Based Systems For Managing The Same
37.	PI2017703890	Azmi M Shariff	Chemical Engineering	Emergency Planning and Response Management System And Method
38.	PI2017704209	Vijanth S Asirvadam	Electrical & Electronic Engineering	A Method of Optimizing Surveillance Camera Placement
39.	PI2017703427	Norani Muti Mohamed	Fundamental Applied Sciences	Integrated Dye Solar Module Structure and Method of Preparing Thereof
40.	PI2017703424	Norani Muti Mohamed	Fundamental Applied Sciences	Dye Solar Module and Method of Fabrication Thereof
41.	PI2017704248	Mokhtar Che Ismail	Mechanical Engineering	Process and Apparatus for Wax Deposition in Pipe

PRODUCTS COMMERCIALISED

No.	Inventor	Invention Title
1.	Hollow Fibre Membrane Prediction Program (HFMPP)	Assoc Prof Dr Lau Kok Keong
2.	CuCNT Thermal Management System in LED Application	Assoc Prof Dr Faiz Ahmad
3.	Intumescent Fire Retardant Coating (IFRC)	Assoc Prof Dr Faiz Ahmad
4.	Augmented Reality Interactive (ARtive)	Assoc Prof Dr Dayang Rohaya Awang Rambli

OTHER INTELLECTUAL PROPERTY RIGHTS (IPRs)

No.	Product	Inventor	Registered Name	Category
1.	Autism Social-Aid	Assoc Prof Dr Wan Fatimah Wan Ahmad	LY2017005226	Copyright
2.	AR Hijabistyle	Assoc Prof Dr Dayang Rohaya Awang Rambli	LY2017005227	Copyright
3.	General Neural Network Tool for Fast and Efficient Industrial Data Analytics	Assoc Prof Ir Dr Rosdiazli Ibrahim	LY2017005224	Copyright
4.	Dr Airil's T&L Soft: 3D-Frame	Dr Airil Yasreen Mohd Yassin	LY2017005228	Copyright
5.	Social-Religious Harmony Index (SRHI) Instrument	Dr Mohd Nuri Al-Amin Endut	LY2017005223	Copyright
6.	Socio-Religious Harmony Development (SRHD) Model	Dr Muhammad Ridhuan Tony Lim Abdullah	LY2017005222	Copyright
7.	HiCESys	Assoc Prof Ir Dr Rosdiazli Ibrahim	LY2017005225	Copyright
8.	Student Performance Analysis	Assoc Prof Ir Dr Rosdiazli Ibrahim	LY2017005221	Copyright
9.	Flipped Assessment to Address Surface Learners	Assoc Prof Dr Mohammad Tazli Azizan	LY2017004310	Copyright
10.	Flipped-Cooperative Learning Pedagogical Approach	Assoc Prof Dr Mohammad Tazli Azizan	LY2017004309	Copyright
9.	Mlearning Implementation Model of Undergraduate English Language	Assoc Prof Dr Muhammad Ridhuan Tony Lim Abdullah	LY2017004308	Copyright
10.	Battery Operated Portable Water Filtration Unit	Prof Dr Hilmi Mukhtar	17-E0155-0101	Industrial Design
10.	Smart Flood Alarm Indicator	Assoc Prof Dr Zahiraniza Mustaffa	17-E0208-0101	Industrial Design

A REVIEW BY THE DEPUTY VICE CHANCELLOR, STUDENT AFFAIRS AND ALUMNI

ASSOCIATE PROFESSOR DR NOR HISHAM HAMID

UTP's performance in 2017 was a strong extension of the initiatives and programmes that had been put in place during the preceding years. We consolidated our efforts, continued to support the students in their activities and endeavours and especially focussed our work on improving the overall student experience.

Administrative Analysis

In the year under review, the administration's primary focus was to address the various issues at hand, with a particular focus on improving student facilities. Towards this, we set up the Building An Excellent Ecosystem for Students or BE2ST Action Lab in April 2015 to pinpoint and study the challenges and shortcomings that needed to be addressed. Some of these included the development of an excellent ecosystem to facilitate holistic student experiences in ensuring well-rounded development.

Simultaneously, we also addressed numerous issues, specifically pertaining to the facilities of the university and predominantly in the areas of student amenities.

One of the key improvements for the year was made towards increasing internet connectivity. The superior connectivity that Celcom has provided is the doorway to limitless information for UTP students throughout their learning process. The university recognises that having superior connectivity, with constant assurance of scalability, flexibility, and robustness of network, will further



enhance the institute as a campus with world class facilities. Within the UTP campus, the university community can now enjoy premium internet services with multiple data plans at a minimum of 22.5 Gigabytes data per month offered by Celcom Axiata.

We also increased our student accommodation facilities, refurbishing Village 5 and bringing our total number of beds to 5,600. With this increase, our student accommodation in UTP itself, plus the hostels at the Seri Iskandar Business Centre (SIBC) can now house all our undergraduate students, meeting UTP's commitment to provide every student with accommodation. The advantage is that although our campus is relatively large,



is that although our campus is relatively large, it is designed such that everything would be within walking distance of each other, and most of the connecting walkways are sheltered.

Food quality and diversity is another issue that we are continuously looking to improve on. While we try as far and as much as possible to meet the needs and requests of the students, understandably these must also be within reason and should be practical and applicable. Sometimes the outcome is not entirely within our hands as it would also depend on vendor decisions.

All these areas are constantly within our sight as we meet continuous improvements each year to better the facilities we offer UTP students.

We are also cognisant of the reality that our work as an institute of higher learning is always in a transitional flux, always fluid and changing to meet the needs of the times. One of the prerequisites today is to be aware of the needs of the current, and future, generations of students. The challenge is to meet these needs as much as possible and more importantly to seek out their views as well.

As a forward thinking establishment we set up the University Student Affairs Committee in 2017. With 4 Deans, 4 Directors, the DVC Student Affairs and 6 student representatives, this committee will deliberate on the needs of the students, and will bring the views of the general student population to the table.

Through this committee, students will now have a say in decisions made, ranging from

accommodation and facilities to curriculum content. This is quite rightly so as the university exists for and because of the students. Not many universities in Malaysia have this platform and we are positive that such student input will help us to ensure that we are not just on the right track but also continuously increasing our value as a preferred university.

As for our curriculum, we continue to provide excellent programmes for which we are receiving increasing recognition and awards from international academic bodies. With the opportunity and encouragement for extensive involvement in extra-curricular activities, our students are able to develop into wholesome, well-rounded graduates who continue to be sought-after by employers. The fact that in 2017, 87% of our new graduates secured jobs within six months is strong testimony to this.

After 20 years in operation, we now have a strength of more than 15,000 alumni and it is heartening to know that we have made our mark and contributed to industries across the board in various capacities.



Student activities

Continuing to make us proud, our students were very active in various activities, at campus, national and international levels. In 2017 UTP ran 476 student activities, encompassing various programmes and events. Of these, many were initiated and organised by the students themselves, which I am glad to say further strengthened their organisational skills and shouldering of responsibilities. This is very much in line with UTP's core philosophy of developing well-rounded graduates.

One of the main events for the year was the ASEAN Student Forum 2017 which attracted 235 participants. This was the second event of its kind supported by the Ministry of Higher Education, (MoHE). Organised by the UTP ASEAN Student Association (UTP-ASA) this was a significant event which also saw the presence of Higher Education Deputy Minister, Yang Berbahagia Datuk Dr Mary Yap Kain Ching, in attendance. The tertiary students from 8 Asean countries congregated for discussions centring around issues within their respective nations and mooted resolutions and suggestions which were then forwarded to the Asean Secretariat.

Our annual Red Sonata event was another rousing success this year, bringing in some 4,000 antipants from schools all over Malaysia. One of the biggest gatherings of its kind, this showcase of Chinese cultural music is one of the many activities UTP carries



out to promote cross cultural appreciation among our students as well as the public. Red Sonata has been held in UTP since 2009 and continues to grow in stature as a key Chinese cultural event

Challenges

While 2017 was a time of celebration for UTP, with many exciting milestones achieved, the university had its fair share of challenges, one of which was the student intake figures.

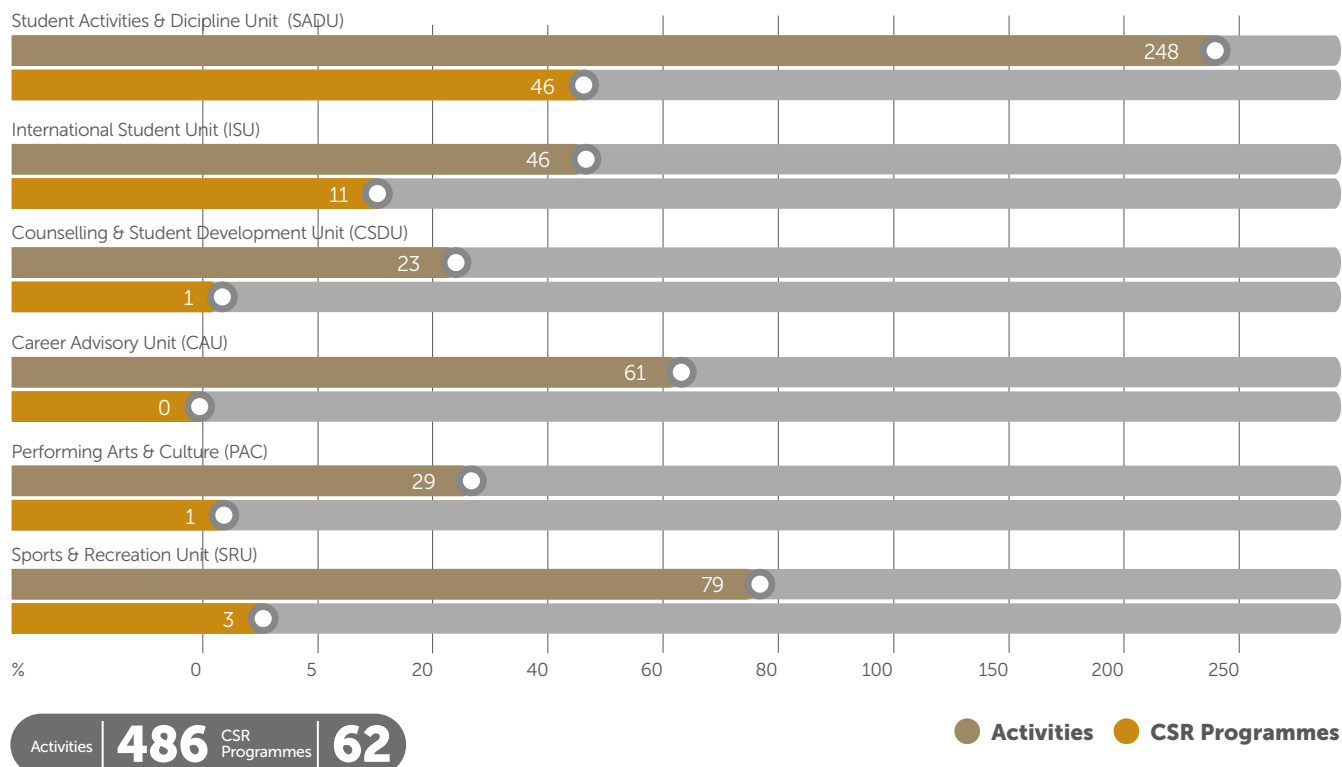
Our new student intake fell some 25% from the annual average of 1,600 students to 1,200. We have attributed this drop to economic reasons as the country as a whole battled various economic and financial pressures, coupled with increasing competition from

the education industry, both locally and internationally.

With oil prices still dampened, PETRONAS had to inevitably reduce funding for scholarships, and with 47% of UTP intake comprising students from the B40 community, this directly affected our intake numbers.

On our part, we intensified our Zakat & Wakaf Management or ZWMU and fund-raising initiatives - ZWMU helps the Muslim students while Yayasan UTP or YUTP offers financial assistance to the other students. In the initial years, we sponsored close to 90% of our students; last year it was 20%. We are looking towards increasing this figure in the coming years to make a UTP education accessible to more people.

UTP Students' Activities Year 2017



Despite this drop, we are glad to say that over the 20 years, UTP's student population has steadily grown. We have most certainly met our goal as a university established for nation building and the focus is still on maintaining quality instead of merely having quantity. Yes, we are constantly facing challenges. However, they are never seen as problems but as learning experiences which will help us to grow and be better equipped to face the inevitable next challenge. We have been using the I-barometer since 2013 to measure and track our progress and it's wonderful to see that we are doing well. We have a long way to go but we are on the right track.

Going Forward

Leaving 20 successful years behind us we are forging ahead with a keen focus on improving our student experience. While this is not a new focus area for UTP, the plan is to further redefine and reformulate our student development framework.

So, we will be tracking the student experience, beginning from the moment they hear about UTP right through to graduation. The ultimate goal is to create a rich and rewarding student experience encompassing preferred and globally recognised academic

offerings, enriching personal development and skill-building activities, all supported by a comprehensive range of student amenities and facilities on campus.

While university life is a crucial growth period, it is an enjoyable and memorable phase which will help to shape and mould an individual. However, it is not about getting everything that you want, and merely enjoying the moment to the hilt. More importantly, it is about understanding the realities and challenges of life. At the end of the day, what we want is to offer them an experience that is educational, empowering, rewarding and transformative.

We understand that this will be quite challenging as each student is different and everyone has different expectations. It is much like parenting, but parenting to thousands instead of two or three children! Nevertheless, we are resolute in our aim to create a collegiate system that will create a loyal and committed alumni who are model global citizens, who give back to their alma mater and to society. Towards this, we are now defining the unique characteristics of a UTP graduate as a benchmark for what we aspire for our future students.

This will be our next KPI, in addition to academics and research. To date, our QS awards have been for our curriculum and research. The QS as well as the THE rating systems also have specific rankings for student experience and we want to be able to measure and rate ourselves against these.

Our design for the future will include a Centre for Student Services, Centre for Student Development and an Alumni Relations Office, among others. All these, together with the current machinery we have will work together to make UTP a preferred choice in tertiary education. We have our work cut out for us and there is a lot to do.

The input - to both the university and the students alike - would be a crucial element. The effort, the plans and the work we put in will determine the results we get. As we work towards the goal, the learning and the experience we gather will be reinvested to compound the knowledge and the abilities we have towards achieving our goal.



As the Malay proverb goes, *sedikit,-sedikit, lama-lama menjadi bukit.*

We look forward to becoming more, to being better, and to always give the best that we have.

ALUMNI

DOMESTIC



#Top 5 Cities

Kuala Lumpur	3,202
Kerteh	752
Seri Iskandar	180
Petaling Jaya	176
Kuantan	129

INTERNATIONAL



#Top 5 Countries

Indonesia	127
Pakistan	124
U.A.E	71
Egypt	54
Cambodia	53

#Alumni Population



#Alumni by Gender



#Top 5 Programmes

Chemical Engineering	2,963
Mechanical Engineering	2,821
Electrical & Electronic Eng.	2,396
Information & Communication Tech.	1,817
Civil Engineering	1,533

#Total Alumni



#Alumni by Age



#Alumni by Year



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STUDENT AFFAIRS AND ALUMNI DIARY

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EMERGING AS DEBATE CHAMPIONS

3 - 6 February 2017



The UTP Malay Junior Debate team defeated International Islamic University Malaysia and emerged as champion in the 20th Intervarsity ASTAR Open Debate competition. This is the second time UTP has won this competition, the first being in 2005.

The event featured 44 teams from various private and public colleges and universities with 21 teams in Main Category and 23 in the Junior Category, with UTP represented in both.

UTP's winning Junior team comprised Muhammad Rahmat Syafiq Zainal Abidin (Chemical Engineering), Ariff Hakimi Chik (Business Information System), Mohamad Mustqakim Mohd Razali (Mechanical Engineering) and Andi Mohd Syaiful Andi Radi (Petroleum Engineering). They walked away with trophies and cash prizes of RM3,000. Meanwhile Anis Syazwani Bashari (Business Information System) was selected as one of the Top 10 Best Speakers in the Main Debate category.

WINNING THE 2017 ASIAN ENGLISH OLYMPICS CHAMPIONS

9 - 13 February 2017

UTP was crowned the Institutional Champion of the Asian English Olympics 2017 in BINUS University Jakarta, Indonesia. The event featured students from 10 countries and 82 institutions.

This most prestigious English Language competition in Asia sees students participating in debate, speech presentations, a spelling bee, short story writing, newscasting, scrabble, storytelling and radio dramas.



SUCCESS IN THE NATIONAL ROBOTICS COMPETITION

2 May 2017

The UTP Robotics Team - Petrobots - emerged as the second runner up in the Time Rush category of the National Robotics Competition organised by International Islamic University Malaysia Robotic Team.

Walking away with a trophy and a RM400 cash prize, the UTP team was also among

the Top 8 in the Maze Runner category.

The Time Rush team comprised Derek Ho and Idlan Qayyum Abdul Mohamin (Electrical & Electronic Engineering), Lim Wei Hao and Phuah Zhe Sean (Mechanical Engineering) and Jessica Chong Jia Pei (Chemical Engineering). Meanwhile, Lim Zi Xuan, Ang Kai Zhe and Jong Zhe Wei (Mechanical Engineering), and Chan

Tian Wen and Rozendra Jane Robindran (Electrical & Electronic Engineering) competed in the Maze Runner.



IN THE FINALS FOR PIDATO ANTARABANGSA BAHASA MELAYU

26 July 2017



International Chemical Engineering student, Abdul Rahman Khaled Saeed (Year 1 Semester 2) from Yemen, competed in Pidato Antarabangsa Bahasa Melayu (PABM) 2017 for the first time and won second place in the prestigious competition.

This is the first time UTP sent an international student to compete in PABM.

Abdul Rahman's speech "Mahasiswa Tonggak Kejayaan 1Malaysia", won him a RM12,000 cash prize and the PABM 2017 trophy. He made history as the first contestant in PAM Category to reach the finals on his first attempt, making him one of the most highly skilled competitors PABM has ever seen.

WINS IN FESTIVAL TEATER KL 2017

1-5 August 2017

UTP-owned Tronoh Theatre Shop's (TTS) production of Mahkamah Keadilan won top prizes in Festival Teater 2017 for the first time. The show won Best Play and Best Cinematography.

In Short+Sweet Penang 2017, another TTS member Wilson Naoh Anak Burin (Electrical

and Electronic Engineering - Foundation) won Best Supporting Actor.

A third win was secured by Jasmin Farhan Binti Kamal (Chemical Engineering) for Best Actress in "Teater Expressi 10 Minit" organised by Dewan Bahasa Pustaka.





SPORTS CHAMPIONSHIP FOR THE 8TH TIME RUNNING

26 - 27 September 2017

The UTP team walked away as the overall champion for the International Student Sports Carnival 2017 for the eight consecutive year. This Inter-IPT competition was organised by the Ministry of Higher Education (MOHE) and Multimedia University.

The 80 UTP participants participated in 8 events Football (9-a-side), Futsal (Female), Volleyball (Male), Tug of War, Road Relay (Mix), Carom, Basketball (3-on-3) and Cheer. From these they took a total of 7 medals, 5 gold, one silver and one bronze.



NATIONAL ENTREPRENEURSHIP COMPETITION

31 October 2017



Three students did UTP proud in the National Entrepreneurship Competition when their app-based business proposal won the Varsity Entrepreneurship Skills and Talent (VEST) Contest. Beating the teams from Universiti Putra Malaysia and Universiti Kebangsaan Malaysia, they claimed RM25,000 in cash as their reward and also made history as the first team from a private institution to ever win the competition.

The app SolviePro was created and developed by Abdul Qayyum Halid, Muhammad Abdul Haiy Halid and Mohd Ikmal Ahmad Zaihidi, all from the Business Information System programme.

The app allows job seekers to search for jobs based on their geolocation and also allows employers to channel their feedback on potential employment. It also provides information on hourly and daily part time job rates.

Some 1,696 students from more than 20 institutes of higher learning took part in this 6-month competition, with 273 business ideas pitched. Winners were judged based on creativity, franchise marketability, as well as online-friendly and mobile-friendly levels.

SolviePro is also one of the Startups that is developed through the UTP Technopreneurship Centre. The SolviePro team is one of the earliest recipients of the MicroBiz Fund worth RM2,000 from the Centre to enable them to kickstart their business project earlier in June 2017.

STUDENT ACHIEVEMENTS

Arts & Culture	Festival Marhaban Harmoni V Terbuka UPM 1Malaysia 2016 (FESTMA-V 2016) Champion & 1st Runner Up
	Pertandingan Nasyid Mentor Munsyid Sempena Iftar @ KL 2016 4th Place
	Mahrajan Semarak Islami Universiti Pendidikan Sultan Idris (UPSI) Champion & 1st Runner Up
Business & Entrepreneurship	ASEAN Young Entrepreneurship Challenge 2017 4th Place
	National Entrepreneurship Competition Champion
Engineering & Innovation	Future F1 Car Design Competition Champion, 1st and 2nd Runner Up
	National Robotics Competition 2nd Runner Up in Time Rush Category, Top 8 in Maze Runner Category
	Perodua Eco Challenge 2017 Top 10
	Pitch For Progress 2.0 Semi-Finalist for Financial Literacy Session
	The Longest Great Ball Contraption Machine Malaysia Book Of Records For The Longest Great Ball Contraption Machine
	12th National Chem-E-Car Competition Race Competition: 2nd Place by Carbond Team, 5th Place by ACEE AUTO Team, 10th Place by TEG Team Poster Competition: Champion by Carbond Team and 5th Place by ACEE AUTO Team
Linguistic & Literature	Pidato Antarabangsa Bahasa Melayu (PABM) 2nd Place
	6th Asian English Olympics Champion for Speech, Finalist for Drama Radio and Spelling, Semi-Finalist for Newscasting, Storytelling and Debate, Octo-Finalist for Scrabble
	The Intervarsity Iqra' Debate Open Championship 2017 Champion
	20th Intervarsity AStar Open Debate Competition Champion

Sports	2nd UPSI International Netball Championship 3rd Runner Up (Women's Team)
	2017 AirAsia Malaysia Rugby League Semi - Finalist
	Kejohanan Badminton Berpasukan Piala Dato Akmar Hisham 2nd Runner Up
	Kejohanan Golf IPT 2017 9th Place
	Kejohanan Pencak Silat Piala Timbalan Perdana Menteri 2017 1 Gold (Putra E Category)
	Kejohanan Ping-Pong Berpasukan Terbuka D'Mall-UiTM Perak Quarter Finalist
	Kejohanan Ragbi Masiswa 15s - UTP 3rd Runner Up
	Kejohanan Ragbi Seri Iskandar 7s Runner-Up Cup & Runner-Up Bowl
	Kejohanan Silat Terbuka IPT & Jemputan Antarabangsa Taming Sari 8 1 Bronze (Putri A Category)
	Kejohanan Sukan Combat Antara Daerah 2017 (Pencak Silat) Gold Medal (Male Class E)
	Kejohanan Wushu Tertutup Perak 2017 1 Gold, 3 Silver, 3 Bronze
	Majlis Anugerah Sukan Negeri Perak Olahragawan Harapan 2015/2016
	Rugby Perak Fun 7s Under 20 Champion Bowl
	Kejohanan Sukan Combat Antara Daerah 2017 (Wushu) 1 Gold, 5 Silver, 2 Bronze
	Varsity Table Tennis Championship 2017 1 Gold (Women Single)

STUDENT ACTIVITIES

Organised and participated by UTP students

COMPETITIONS

1. Build and Break Competition
2. Cabaran Debat Muda 2121
3. Code Breakers
4. IEEE UTP SB International Advanced Robotics Competition (iARC)
5. Malaysia Rapid and Blitz Chess Championship
6. National Intervarsity Debating Championship
7. Pitch for Green
8. Perak Open Chess Championship
9. Petrobots Robotics Competition (PRC)
10. 'So You Think You Can Write' Competition
11. SPE National Oil Rig Competition
12. Startup Weekend Ipoh@UTP
13. Swift Ideas Challenge
14. UTP Asian English Olympics

CONCERTS / FESTIVALS / PERFORMANCES

1. 'Awal & Mira And Jalut' Theatre Performance
2. Bhangra Dance Off
3. Children Provision Charity Fair
4. Children Provision Charity : Charity Night
5. Chinese Orchestra Performance: Musica Destino
6. Christmas Celebration
7. ConvoFair
8. 'Dendam Maharani' Theatre Performance
9. Ensemble of Gamelan
10. Euphonious
11. Exchange Fair
12. FestAfrica
13. Festival Citra Siswa
14. Festival of Colours of the World (FESCO)
15. Go Green Movement Food Hunt 2.0: Bazaar Night
16. 'Hang Tuah Hang Jebat' Theatre Performance
17. International Cultural Night (ICN)
18. Lead Abroad
19. Red Sonata Fiesta (RSF)
20. Tapestry of Colours (ToC)
21. UTP ASEAN Student Forum (ASF'17): ASEAN Student Forum Open Day & Cultural Show
22. UTP Colours of Ranggoli Night

CORPORATE SOCIAL RESPONSIBILITY

1. Blood Donation Drive
2. Children Provision Charity : Joyful Childhood
3. Geoscience Exhibition and Competition (GENC'17): Jejak Kasih
4. Go Green Movement UTP Bicycle Awareness Week
5. i-Nat Feed the Homeless Program
6. Medical Camp - Blood Donation
7. MedTech CyberGen
8. Raudhah Ramadhan 3.0
9. Raya With Orphans
10. STEM Programme: School of Energy

DINNERS & AWARDS

1. Convocation Ceremony
2. Convocation Dinner
3. International Iftar
4. Mozambique Day VI
5. Pakistan Resolution Day Celebration
6. Residential College Outstanding Achievement & Recognition Dinner (ROAR)
7. Sudanese Day
8. UTP 20th Anniversary Dinner

EXHIBITIONS

1. ASEAN Book Fair
2. Civil and Environmental Engineering Convention
3. Corporate Career Exposure (CCE)
4. Geoscience Exhibition and Competition (GENC'17)
5. IEM Week
6. Minggu Mesra Kampus (MMK)
7. Rally Car Show Event
8. Science Engineering and Design Exhibition (SEDEX)
9. Technology, Education and Career (TEC)

SPORTS

1. ASEAN Student Forum (ASF'17): ASEAN Sports Carnival
2. Children Provision Charity: Charity Run
3. EsportES
4. Geoscience Exhibition and Competition (GENC'17): Resident Evil Run
5. National Go Nature Campaign
6. Save Our Rainforest Race (SORR)
7. SPE-UTP-SC Charity Futsal Tournament
8. UTP Closed Badminton Championship
9. UTP Cyber Games
10. UTP Ramadhan Volleyball League
11. UTP Smash Badminton Challenge
12. UTP Soccer Kids Challenge
13. UTP Super Rugby Carnival
14. Village Sport (VSport)

WORKSHOPS / SEMINARS / CONFERENCES / TALKS

1. ASEAN Student Forum (ASF)
2. Bengkel Bimbingan UPSR 3.0 & 4.0
3. Fun Math Camp
4. Geoscience Exhibition and Competition (GENC'17): Oil Potential Technical Talk
5. Intellectual Forum: New World Order by Youth
6. Medical Camp
7. 'New Semester New Life' Talk
8. Northern Regional Leadership Conference (NRLC)
9. Petroleum Geoscience: A Closer Look
10. Program Cinta Negara & Lawatan Penanda Aras
11. 'Public Speaking: Expressing Yourself to an Audience' Talk
12. SPE Asia Pacific Health, Safety, Security, Environment & Social Responsibility (HSSE-SR) Conference
13. Talk by Mr Anas Asalem from NrgEdge
14. TEDxUTP
15. UTP Chess Camp
16. Youth Forum