UNIVERSITI
TEKNOLOGI
PETRONAS

Energising Futures

2015

ANNUAL REPORT

CONCEPT RATIONALE

The 2015 Annual Report is a review of the university's performance and highlights for the year.

While looking back to evaluate growth and progress for the year, our focus is firmly on where the future will lead us. In doing so, we are not, however, meandering with the flow, but are actively directing where we want to go, propelled by our Vision and Mission.

The UTP logo with its bold colours against the white background continue to reflect our prominence and strength in the education arena. We remain strong and loyal to our corporate values even as we adapt and change to keep with fast changing times.

We are the architects of our successes and we are Energising Futures.

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CORPORATE PROFILE
University Profile • Vision and Mission • Logo Rationale

PETRONAS

University Profile

Universiti Teknologi PETRONAS (UTP) is built on a 400-hectare (1,000 acre) site strategically located 30 km southwest of Ipoh City at Seri Iskandar, Perak, Malaysia. The University is a wholly-owned subsidiary of PETRONAS, the national oil and gas company of Malaysia. The University community comprises students and staff from various countries across the globe. The campus is built on a beautifully landscaped setting, amidst the new township of Seri Iskandar. Its tranquil environment, wide open spaces and abundant lakes make this University an ideal place to study.

Established in 1997, UTP has grown to be one of the most prominent private universities in Malaysia. Offering a wide range of industry-relevant engineering, science and technology programmes at undergraduate and postgraduate levels, UTP has produced more than 10,000 graduates and currently has an enrolment of 6,300 undergraduates and 1,200 postgraduates from over 66 countries around the world.

UTP presently sees industry participation from more than 400 companies offering internship placements for its students, including overseas companies. UTP has also invited industry speakers including company CEOs and leading personalities to serve as Adjunct Lecturers or invited speakers in programmes such as its Public Lecture Series.

The University has established an Industry Advisory Panel to ensure its educational contents remain relevant to industrial practices. UTP graduates, who are well prepared to face industry challenges, gain employment soon after graduation not only in Malaysia but in other countries such as the U.K, U.S.A, Canada, Australia, New Zealand and Ireland after Malaysia's inclusion as a full participating member in the Washington Accord in 2009.

UTP is the only private university in Malaysia to be ranked in the top 160 for the Quacquarelli Symonds (QS) University Rankings: Asia 2015 and ranked at 288 for the QS World University Rankings under Engineering and Technology Faculty. UTP improved its ranking in the QS World University Rankings 2015 by subject. It maintained its position in the top 200 for Chemical Engineering. Three subjects were also added to this world ranking - Electrical & Electronics Engineering and Mechanical Engineering (201-250) and Computer Science & Information Systems (301-350).

UTP is also the only private university in Malaysia to be rated a 4 Star institution by QS, with a maximum 5 Star rating in five areas out of eight, namely employability, facilities, inclusiveness, innovation and internationalisation.

UTP continues to provide distinctive educational opportunities to its students with the rating of Tier 5 (Excellent) University Rating System for the Malaysian Higher Education Institutions (SETARA) and achieved the Tier 5 for D-SETARA (Discipline-Based Rating System) in engineering.

UTP also places strong emphasis on Research and Development as it strives to achieve the status of an internationally renowned Research University.

The University conducts extensive research activities in collaboration with PETRONAS and other institutions and industries locally and abroad focusing on nine niche areas which are Enhanced Oil Recovery, Carbon Dioxide Management, Deepwater Technology, Nanotechnology, Green Technology, Biomedical Technology, Hybrid Energy Systems, Intelligent Cities and Sustainable Resources.

This is evident when UTP was awarded a 6 Star rating by Malaysian Research Assessment Instrument (MyRA) for its research, development and commercialisation efforts.

Vision

TO BE A LEADER IN TECHNOLOGY EDUCATION AND CENTRE FOR CREATIVITY AND INNOVATION

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.

UNIVERSITI
TEKNOLOGI
PETRONAS

Logo Rationale

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.

THE UNIVERSITY TEAM

Chancellor • Pro Chancellor • Vice Chancellor • Board of Directors • Management Committee • Senate • Academic Advisory Council • Research Advisory Council • Student Development Advisory Council • International External Examiners • Industry Advisory Panel •

Chancellor

Tun Dr Mahathir bin Mohamad

Tun Dr. Mahathir Mohamad was Prime Minister of Malaysia from 1981 to 2003. During this period he opened the country to foreign investment, reformed taxation, reduced trade barriers, oversaw the privatisation of numerous state-owned enterprises and created world-class physical infrastructure. He also sought to bridge Malaysia's ethnic divides by increasing general prosperity.

In 1991, he launched the New Development Policy, which emphasised industrial and commercial development and the elimination of poverty. Under Tun Dr. Mahathir's leadership, Malaysia developed into one of the most prosperous and dynamic economies in Southeast Asia, with a burgeoning industrial sector, an expanding middle class and enhanced quality of life.

Malaysia also played a more active role in the international arena, acting as the voice for developing nations in Asia and Africa. Always with one eye on the future, Tun Dr. Mahathir Mohamad unveiled Vision 2020 in 1991, a blueprint for Malaysia's journey to becoming a developed economy and a mature democracy by the year 2020.

Despite his retirement, Dr. Mahathir has kept busy with numerous invitations and speaking engagements locally and abroad.

Currently he serves as an Advisor to national entities, namely the Langkawi Island Development Authority, the Tioman Island Development Authority and the highly successful National Oil & Gas company, PETRONAS.

He is also the Honorary President of the Perdana Leadership Foundation (PLF), a think-tank set up to preserve, develop and disseminate the intellectual heritage of past leaders; the Chairman of the Kuala Lumpur Foundation to Criminalise War (KLFCW) and President of the Perdana Global Peace Foundation (PGPF). Both KLFCW and PGPF aim to promote global peace and criminalise war. He also serves as Chancellor to Universiti Teknologi PETRONAS and Perdana University.

Tun Dr. Mahathir Mohamad is the current Chairman of car manufacturer Proton Holdings Bhd. He is also Chairman of Proton's wholly-owned subsidiary Lotus Plc.

Tun Dr. Mahathir is married to a doctor, Tun Dr. Siti Hasmah Mohd Ali, and they have seven children and sixteen grandchildren.

Tan Sri Sidek Hassan is the Chairman of Petroliam Nasional Berhad (PETRONAS), the National Oil & Gas Company of Malaysia, 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 38 years, the last six as the Chief Secretary to the Government. He had an extensive career of close to three decades with the Ministry of International Trade and Industry (MITI), Malaysia, during which time he held numerous positions including those of Secretary-General, Deputy Secretary-General (Trade) and Director of the Multilateral Relations Division. He was also Minister (Economic Affairs) at the Embassy of Malaysia in Washington DC, United States; Malaysian Trade Commissioner in Sydney, Australia and Assistant Trade Commissioner at the Malaysian Embassy in Tokyo, Japan.

Tan Sri Sidek served as President of International Islamic University Malaysia (IIUM) between 2008 and 2013.

Since 1 May 2016, Tan Sri Sidek is the Chairman of Malaysia Digital Economy Corporation (MDEC).

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

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

Pro Chancellor

Tan Sri Sidek Hassan

Datuk Wan Zulkiflee bin Wan Ariffin, is the President and Group CEO of PETRONAS.

He joined PETRONAS in 1983 as a Process Engineer involved in the development of several Gas Processing Plants. In the ensuing years he held various positions within the PETRONAS Group including serving in the Office of the President as 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 was the Managing Director and Chief Executive Officer of a public listed subsidiary, PETRONAS Gas Berhad from 2003 to 2007 and Vice President of Gas Business from 2006 to 2010.

In 2012, he was appointed Chief Operating Officer of PETRONAS in addition to being the Executive Vice President and Chief Executive Officer of Downstream Business. He was also the Chairman of PETRONAS Chemicals Group Berhad and PETRONAS Dagangan Berhad.

Datuk Wan Zulkiflee was appointed President and Group CEO of PETRONAS in April 2015.

He is a Council Member of the East Coast Economic Region Development Council (ECERDC), as well as Chairman of the ECERDC's Audit Committee. He is also the Chairman of the National Trust Fund, a member of the Board of Trustees of the Razak School of Government, the Industry Advisor to the Engineering Faculty of Universiti Putra Malaysia, and a member of the Global Science and Innovation Advisory Council Malaysia.

Datuk Wan Zulkiflee holds a Bachelor of Engineering Degree in Chemical Engineering from the University of Adelaide, South Australia. In 2000, he attended the INSEAD Senior Management Development Program and the Advanced Management Program at Harvard Business School in 2004. He was conferred an Honorary Fellowship by the Institution of Chemical Engineers, United Kingdom in November 2005.

Pro Chancellor

Datuk Wan Zulkiflee bin Wan Ariffin

Vice Chancellor

Datuk Ir (Dr) Abdul Rahim Hashim

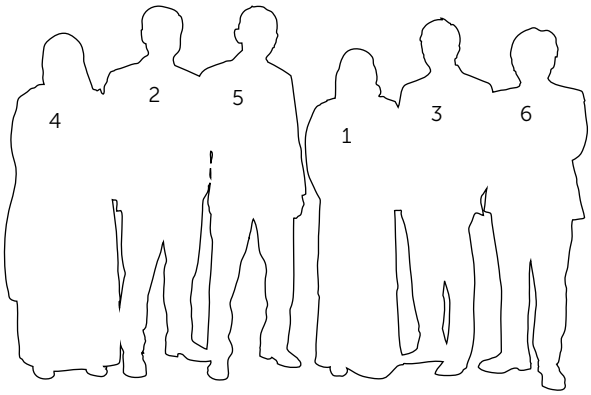
Datuk Ir (Dr) A Rahim Hj Hashim was appointed as the Vice Chancellor of the Universiti Teknologi PETRONAS on November 1, 2012. He graduated in Electrical and Electronics Engineering from the University of Birmingham, United Kingdom in 1976 and later received an Honorary Doctorate in Engineering from 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, the PETRONAS first refinery at 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 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 a Malaysia Convention & Exhibition Bureau MyCEB's Kesatria.

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 Advanced Management Program in 1997.

Board of Directors



Chairman
1. Dato' Raiha Azni Abdul Rahman

Members
2. Datuk Mohd Anuar Taib

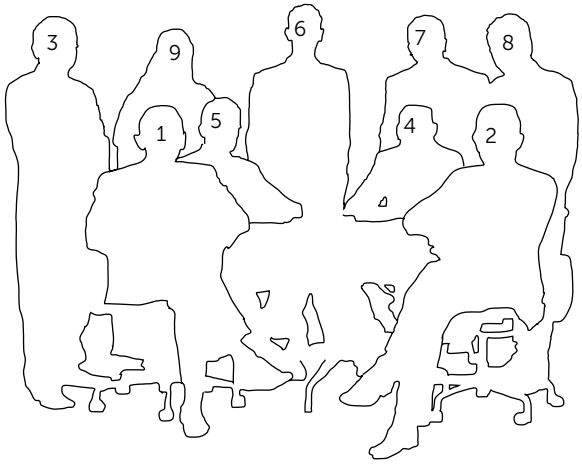
3. Adif Zulkifli

4. Freida Amat

5. Datuk Ir (Dr) Abdul Rahim Hashim

Company Secretary
6. Ahmad Redza Abdul Wahab

Management Committee



Chairman
1. Datuk Ir (Dr) Abdul Rahim Hashim
   Vice Chancellor & Managing Director/CEO

Members
2. Prof Ir Dr Ahmad Fadzil Mohamad Hani
   Deputy Vice Chancellor, Academic

3. Prof Dr Abdul Rashid Abd Aziz
   Deputy Vice Chancellor, Research and Innovation

4. Mohamed Noor Rosli Baharom
   Deputy Vice Chancellor, Student Affairs and Alumni

5. Hasbullah Hj Ihsan
   Chief Financial Officer

6. Solihuddin Ahmad Nasarudin
   Registrar

7. Assoc Prof Dr Hilmi Mukhtar
   Director, Transformation Office

8. Zamri Yusof
   Senior Manager, Human Resource
   Management and Administration

Secretary
9. Haslina Noor Hasni
   Manager, Legal Services

Senate

Chairman

1. Datuk Ir (Dr) Abdul Rahim Hashim
   Vice Chancellor & Managing Director/CEO

Members

2. Prof Ir Dr Ahmad Fadzil Mohamad Hani
   Deputy Vice Chancellor, Academic

3. Prof Dr Abdul Rashid Abdul Aziz
   Deputy Vice Chancellor, Research and Innovation

4. Mohamed Noor Rosli Baharom
   Deputy Vice Chancellor, Student Affairs and Alumni

5. Hasbullah Hj Ihsan
   Chief Financial Officer

6. Assoc Prof Dr Hilmi Mukhtar
   Director, Transformation Office

7. Prof Dr Mohamed Ibrahim Abdul Mutalib
   Dean, Faculty of Engineering

8. Assoc Prof Dr Ahmad Kamil Mahmood
   Dean, Faculty of Science & Information Technology

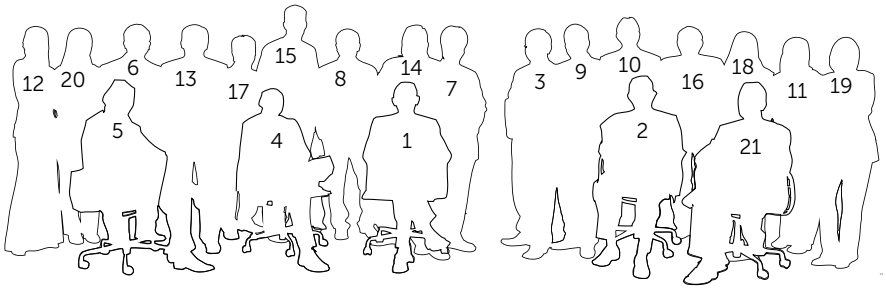
9. Prof Ir Dr Mohd Shahir Liew
   Dean, Faculty of Geoscience and Petroleum Engineering

10. Assoc Prof Dr Mohd Fadzil Hassan
    Dean, Centre for Graduate Studies

11. Assoc Prof Dr Suriati Bt Sufian
    Head, Chemical Engineering

12. Dr Noor Amila Bt Wan Zawawi
    Head, Civil & Environmental Engineering Department

13. Assoc Prof Dr Rosdiazli Ibrahim
    Head, Electrical & Electronic Engineering Department



14. Assoc Prof Ir Dr Masri Baharom
    Head, Mechanical Engineering Department

15. Dr Khaled Elrais
    Head, Petroleum Engineering Department

16. Assoc Prof Dr Chow Weng Sum
    Head, Geoscience Department

17. Assoc Prof Dr Jafreezal Jaafar
    Head, Computer and Information Sciences Department

18. Dr Hanita Bt Daud
    Head, Fundamental and Applied Sciences Department

19. Assoc Prof Dr Shahrina Bt Mohd Nordin
    Head, Management and Humanities Department

20. Assoc Prof Dr Ku Zilati Ku Shaari
    Head, Centre for Student Internship, Mobility and Adjunct Lectureship

Secretary

21. Solihuddin Ahmad Nasarudin
    Registrar

Academic Advisory Council

Acting as a forum for the exchange of ideas between the University and various sectors of society, 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 – to be 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

Tun Dr. Mahathir Bin Mohamad
Chancellor
Universiti Teknologi PETRONAS

Members

Tan Sri Datuk Ir (Dr) Hj Ahmad Zaidee Laidin
Vice President
Academy of Sciences Malaysia

Tan Sri Zarinah Anwar
Former Chairman
Securities Commission Malaysia

Professor Emeritus Tan Sri Dr Zakri Abdul Hamid
Science Advisor to the Prime Minister of Malaysia

Prof Lord Kumar Bhattacharyya
Founder and Director of Warwick Manufacturing Group, University of Warwick, United Kingdom

Prof Dr David B Prior
Executive Vice Chancellor and Provost
Hamad bin Khalifa University, Qatar

Prof Dr Feng Da Hsuan
Senior Vice President
National Tsing Hua University, Taiwan

Scientia Prof Dr Deo Karan Prasad
Professor, Faculty of the Built Environment
University of New South Wales, Australia

Prof Dr Haruo Takeda
Corporate Chief Engineer
Hitachi Ltd, Japan

Prof Dr Jeom Kee Paik
President of The Ship and Offshore Research Institute
Pusan National University, South Korea

Prof Dr Shih Choon Fong
Former Founding President, King Abdullah University of Science & Technology (KAUST)
Kingdom of Saudi Arabia

Dr Terje Martin Halmo
President
Risavika Gas Centre DA, Norway

Prof Sir David Greenaway
Vice Chancellor
The Nottingham University, UK

Prof Micheal Celia
Theodora Shelton Pitney Professor of Environmental Studies
Professor of Civil and Environmental Engineering
Princeton University, USA

Dato' Raiha Azni Abd Rahman
Senior Vice President
Group Human Resource Management, PETRONAS

Datuk Ir (Dr) Abdul Rahim Hashim
Vice Chancellor & 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 establishes the Research Advisory Council (RAC) in 2010 that meets annually to deliberate issues and matters concerning the development of the University especially in areas that include research, innovation and commercialisation. RAC's prominent and esteemed members 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 & Managing Director/CEO
Universiti Teknologi PETRONAS

Members

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

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

Dato' Prof Dr Asma Ismail
Director General of Higher Education
Ministry of Higher Education

Dr Zulkifli Mohamed Hashim
Deputy Secretary General (Science)
Ministry of Science, Technology and
Innovation

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

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

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

Dato' Kamarul Redzuan Muhamed
Managing Director/CEO
UZMA Group

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

Ng Wan Peng
Chief Executive Officer
Multimedia Development Corporation

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

Prof Dr Abdul Rashid B Abdul Aziz
Deputy Vice Chancellor
Research & Innovation
Universiti Teknologi PETRONAS

Secretary

Hj M Azminuddin Affandi
Senior Manager
Research & Innovation Office
Universiti Teknologi PETRONAS

Student Development Advisory Council

The Student Development Advisory Council (SDAC) is a council of industry leaders to advise Universiti Teknologi PETRONAS (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 requirement. Its inaugural meeting was held on 10 September 2012.

Chairman

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

Members

Dato' Dr Ismail Alias
Vice President
Persatuan Kaunseling Malaysia

Dato' Dr Adnan Alias
Chief Executive Officer
The Islamic Banking & Finance Institute Malaysia

Datuk Chin Leng Sim @ Marina Chin
Director, Sports Division
Ministry of Education

Jamal A Ainul
Chairman
Schlumberger Group of Companies Asia Pacific

Mohd Suhaimi Baharudin
Director & Senior Vice President
Technip Malaysia

Ng Wan Peng
Chief Operating Officer
Multimedia Development Corporation

Kamal Baharin Ahmad
Chief Operating Officer
PETRONAS Penapisan Melaka

Mac Chun Jin
Deputy Chief Operating Officer
Muhibbah Engineering (M) Berhad

Nan Yusri Nan Rahimy
Group Managing Director
Deleum Berhad

Goh See Wee
Chief Operating Officer
Mesiniaga Berhad

Zakaria Kasah
Chief Operating Officer
Malaysia LNG Sdn Bhd

Secretary

Mohamed Noor Rosli Baharom
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. Established since 1999, the International External Examiners meeting is held annually to deliberate on examination, curriculum development, staff development and facilities, future trends of engineering education and matters pertaining to research and development. The International External Examiners meeting provides invaluable input that contribute towards the realisation of the University's vision and mission in making it a leader in engineering and technology education.

Chemical Engineering
Prof Dr Barry Crittenden
Department of Chemical Engineering
University of Bath, United Kingdom

Civil Engineering
Prof Dr Chimay J Anumba
Department Head and Professor
of Architectural Engineering
The Pennsylvania State University
United States of America

Electrical & Electronic Engineering
Prof Fabrice Meriaudeau
Vice President in International Relation
Université de Bourgogne, France

Mechanical Engineering
Professor Emeritus Dr. Andrew J. Day
Ford Professor of Quality Engineering
University of Bradford, United Kingdom

Petroleum Engineering
Prof Dr Ir Hasian Parlindungan
Septoratno Siregar
Professor at the Petroleum Engineering
Department and Student Academic
Counselor
Institut Teknologi Bandung, Indonesia

Geosciences
Prof Dr John G Kaldi
Chief Scientist CO2CRC (Chair) of
Geosequest University of Adelaide, Australia

Business Information Systems
Prof Dr James YL Thong
Chair Professor and Head of Department
Hong Kong University of Science and
Technology

Information & Communication Technology
Prof Dr Clark Thomborson
Deputy Head of Department (Academic)
University of Auckland, New Zealand

Management & Humanities
Prof John M Luiz
University of Cape Town
Waterfront, South Africa

Industry Advisory Panel

The University has taken another step to ensure that its education deliveries remain relevant with industrial 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 consisting 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 help 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 the University's academic curriculum, teaching methodology, facilities and practices to help it stay in tune with the emerging needs of the industry.

Chemical Engineering

Datuk Sazali Hamzah
President/CEO
PETRONAS Chemical Group Berhad

Razak Rahman
Industrial Management System and Safety Manager
Air Liquide CO2 Europe SA, France

Julianna Kamarudin
General Manager
NGC Energy Sdn Bhd

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

Civil Engineering

Dato' Ir Gue See Sew
Chief Executive Officer
G & P Professionals Sdn. Bhd

Zahari A Razak
Custodian (C&S Design Offshore)
PETRONAS Carigali Sdn Bhd (PCSB)

Dato' Ir Dr Ashaari Mohamad
Technical Director/Business Development Director
Kumpulan IKRAM Sdn. Bhd

Ir Muhammad Akhir Othman
Managing Director
HYDEC Engineering Sdn Bhd

Electrical & Electronic Engineering

Dr Aznan Ezraie Ariffin
Vice President (Investments)
Khazanah Nasional Berhad

Dr Gunawan Witjaksono
Principal Researcher & Director
Micro Energy Cluster
MIMOS Bhd, Malaysia

Yong Lam Wai
Chief Technical Officer
CARSEM Malaysia

Vivekananda Rajah Harindran
Custodian Engineer
Instrumentation and Control
Group Technical Solution, PETRONAS

Mechanical Engineering

Ir Rosli Hj Yusof
Principal Engineer (Rotating Equipment)
Mechanical Engineering Department
Group Technical Solutions, PETRONAS

Dr John Fuad Edwards
Global Technical Manager for Asset Integrity Services
Lloyds Register of Shipping (M) Bhd

Ir Dzulaidin Tasrin Othman
Head Project Engineering Services (Management)
Sapura Kencana Engineering Sdn Bhd

Ir Ismady Hj Ismail
General Manager
TNB Repair & Maintenance Sdn Bhd

Petroleum Engineering

Azman Aris
Senior Manager-Well Engineering
Vestigo Petroleum Sdn Bhd

Dr Lim Lay Tiong
Senior Production Engineer
Amaray Invine Sdn Bhd

Dr Fikri J. Kuchuk
Fellow & Chief Reservoir Engineer
Schlumberger

Dr Paul Hammonds
Technical Manager – Chemical Applications Asia Pacific
Baker Hughes

Geosciences

Dr Mazlan Madon
Custodian (Petroleum Geosciences)
Exploration & Production Technology Centre
PETRONAS

Jesmee Zainal Rashid
Business Development Manager – Asia Pacific
Petroleum Geo-Services

Muhamad Kamal Embong
General Manager
Upstream Malaysia Technical Global
PETRONAS

Ahmad Hatta Kamaruzzaman
Vice President, Global Accounts
Schlumberger Oilfield Services Asia

Computer & Information Sciences

Dr Dzaharudin Mansor
National/Regional Technology Officer
Microsoft Malaysia

Tan Eng Hoo
Senior Manager
Talent Development Division
Multimedia Development Corporation

Mohd Nizam Abdul Rahim
Head, IT Services
Sime Darby Global Services Centre Sdn Bhd

William Chau Wei Loong
Assistant Vice President
Asia Solutions Delivery
Global Technology & Operations
MetLife

Ritakamal Sadiman
Board of Advisor
Persatuan Usahawan Dan Industri ICT Bumiputera Malaysia (NEF)

Dr Amirudin Abdul Wahab
Chief Executive Officer
Cyber Security Malaysia

Management & Humanities

Md Arif Mahmood
Executive Vice President & CEO
Downstream Business, PETRONAS

Dato' Hafsah Hashim
Chief Executive Officer
SME Corporation Malaysia

Datuk Abdul Jalil Abdul Hamid
Group Managing Editor/Director
The New Straits Times Press (M) Bhd

Rosli Ismail
Senior Manager
Coporate Communication
Permodalan Nasional Berhad

SCIENCE & ENGINEERING
DESIGN EXHIBITION 33
PORTAL TO THE FUTURE

Chairman's Review

Dato' Raiha Azni Abd Rahman

The UTP Dream

Educational excellence, superior training and up-and-coming world-class research.

These are the three phrases I would use to sum up what UTP is today.

Let me tell you why.

As an institution of higher learning, the UTP name and reputation has strengthened year after year. From being a youngling in the world of tertiary education, it quickly gathered significant momentum and grew by leaps and bounds. Expanding both in number of students and programmes offered, UTP has established itself as the premier institution for engineering and technology courses in Malaysia, with highly qualified and professional teaching staff.

Cognisant of the fact that Science must very often go hand in hand with Arts and Business, UTP has widened its reach encompassing business and communication courses to create more comprehensive educational programmes for its students.

I am proud to say that at UTP, education does not merely comprise book learning of facts and figures. Instead, the approach to learning and teaching is holistic and includes life skills, soft skills, planning, management, and leadership training.

A fertile training ground, UTP's strategies and methods in preparing students for the real world have been proven, time and again, to be effective.

This has made it the mould that shapes the leaders, movers and shakers of the future. It is where the next generations come into themselves as they stand on the threshold of adulthood.

"Whatever the mind can conceive and believe, it can achieve," said author Napoleon Hill. Coupled with the right values, attitudes and principles, our leaders of tomorrow will grow into individuals who will contribute positively to the Nation, as well as the world.

From Ancient Learning to the Science of the Stars

History has long recorded the growth of society as being in tandem with that of education and knowledge. The pursuit of knowledge has been and continues to be one of the primary goals of man since the time of the ancient Greeks. In fact, much of modern learning and education owes itself to the traditions born during this time.

However, we have come a long way from waxed tablets, papyrus rolls, tunics and reed pens. Today, we live in the age of Information Technology and Science.

As we move into the 21st century and beyond, the world of science and technology are making breakthroughs, taking us to greater heights. What is now deemed impossible, may someday become a norm – just like how mobile communication and having information at your fingertips were once unimaginable.

UTP aims to be part of this new era and is striving hard to establish itself as a world-class research facility. In a world with no boundaries, the University is constantly expanding its vision with a firm commitment and clear direction to be among the upper echelons of research.

Towards this end, just short of its 20th birthday, UTP has an impressive array of research centres, many of which are equipped with the most up-to-date and sophisticated technology and equipment. It is also now in the midst of developing its Research Park which will further one of its causes and goals to become the go-to institution for solutions and innovation in Malaysia.

Opening up new frontiers, pioneering research, creating new technology, introducing innovative solutions and methods for the industry - these are the objectives and the goals of the University.

With the blueprints already in place to design and create this future for UTP, we are closer to realising the UTP dream. Failing to plan only means that we plan to fail.

In just a short span of 20 years, this University has achieved great heights. How much farther will it go, now that it has propelled itself forward and is gaining momentum?

I truly look forward to see how far and high UTP will go. These are certainly exciting times ahead.

Growing from Strength to Strength

There is no easy road to success. Challenges and obstacles were definitely part and parcel of the UTP story and they will be part of the future story as well. It is only through these very challenges that the University has grown to what it is today.

One of the issues that has been at the forefront of Malaysia's economy is the drop in oil prices. We must admit that the oil and gas industry has seen its fair share of setbacks, especially in recent years. As a university that predominantly focuses on petroleum-related programmes, UTP has undoubtedly experienced a spillover effect, not only in terms of student interest in the programmes it offers, but also in terms of funding and finances.

However, there will always be times of reaping and harvesting and times of sowing and losses in any industry. Good or bad, every experience serves as a learning point for the University as well as PETRONAS that will help us thrive in tough times.

In this, I must commend UTP for a job well done in bringing the university to the fore. While students are undoubtedly our core asset, the numerous linkages and tie-ups with research partners and clients play significant roles in the journey towards the future.

UTP has cemented its position as a partner-of-choice in a wide range of activities and collaborations, strengthening its position in global education and research. The University's students and alumni, who are our brand ambassadors, can now carry the UTP and PETRONAS names with pride to all corners of the world.

The Work of the People

At the end of the day, the very strength of any establishment lies in its people.

The people – staff, students, as well as alumni – form the foundation that supports UTP and PETRONAS. With perseverance, they took on the challenges in making the UTP dream a reality.

Every endeavour that has brought UTP to its educational excellence, turned it into a premier training facility and established it as a world-class research institution, can be traced back to these remarkable individuals.

My utmost appreciation also goes out to our forefathers, whose grand vision for the University started the entire journey that we are on today.

UTP is indeed an inspiration, both as an establishment by itself and the collective efforts of everyone who have made it what it is. It is

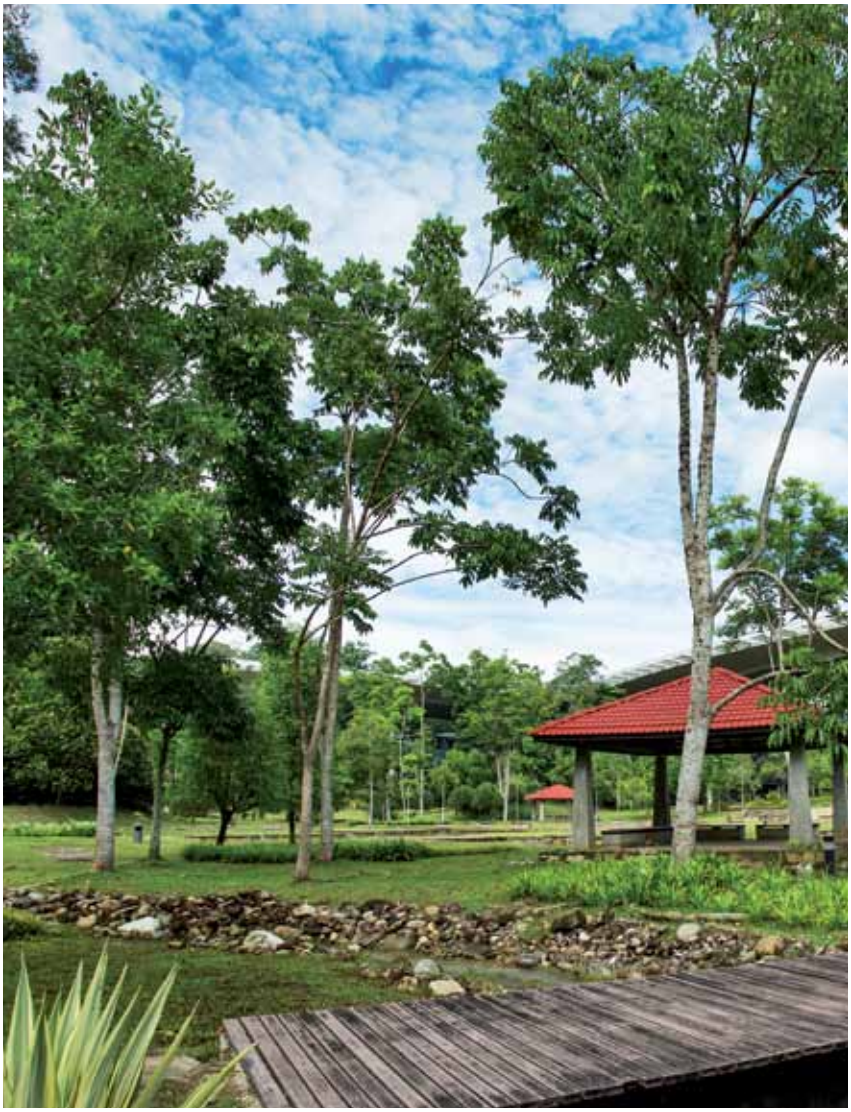
proof that with visionary planning, effective management, coupled with a dedicated and committed team, we can achieve great things. This is what Focused Execution and Shared Success looks like to me.

So the stage is set and we still have a long way to go. With a strong sense of purpose, the road ahead is exciting and I am sure UTP is already well on its way to achieving its goals towards global prominence.

Together, we can realise the UTP dream!

Let's make UTP even better!

Dato' Raiha Azni Abd Rahman



"You have to learn the rules of the game. And then you have to play better than anyone else."

– Albert Einstein

Vice Chancellor's Report

Datuk Ir (Dr) Abdul Rahim Hashim

Making Our Mark

The year 2015 marks our 19th year of operations as an institution of higher learning.

Sitting at the helm of this university, with an overview of everything within, I am glad to be able to say that our journey to date, has indeed been an exhilarating one. While in human years we are almost reaching adulthood and maturity, in the world of academia we are but a babe in the woods. Even so, UTP has already began its climb towards the higher echelons of education, and our accomplishments are doubly sweetened by our very young age.

UTP's journey has been marked with exciting milestones, significant achievements and noteworthy awards. While we do not claim to be perfect, nor say we have not made mistakes, we are proud to boldly affirm that the successes we have achieved are the well-earned fruits of our hard work and tireless effort. The steps we have taken, the decisions made and the work put in have been fuelled by a dream and guided by a blueprint that has long been put in place. For this, we must acknowledge the foresight and the vision of our forefathers in setting not only the grand design for UTP but also for laying a strong foundation on which we can build on. The great minds that have been at the helm of our university through the years have tirelessly invested time, financial resources, ideas and continuous effort into what has become a well-oiled machinery today. More importantly all these are anchored in unshakeable principles that stand proud at the heart of UTP.

From a singular entity, with no legacy, no heritage and no foothold at all in education, today we have carved our very own unique legacy and it all boils down to having the right philosophy, solid founding principles and a visionary team, all working within a vibrant and encouraging environment.

All these have brought us to our standing as one of Malaysia's premier universities as we head towards our 20th anniversary. They illustrate and attest to who UTP is, what we stand for, and where we are headed.

Surpassing Goals in the Spirit of Excellence

While we continue to strive Towards Global Prominence,as a university that specialises heavily on engineering courses, we are not only proving our mettle but are constantly improving. Having broken into the Top 200 Quacquarelli Symonds (QS) World University Rankings by Subject for Chemical Engineering in 2014, we successfully retained this coveted position this year. We are also proudly within the Top 250 for Electrical and Electronic Engineering and Mechanical Engineering while for Computer Science and Information Systems we are among the Top 350.

Faculty-wise, our Faculty of Engineering and Technology has done us proud indeed by being our first faculty to be ranked within the QS rankings. It was placed within the Top 288 for its faculty division.

Having mentioned these, I must highlight the fact that all the QS World ratings we have achieved are milestones that have been reached much earlier than the projected and targeted date of 2020. This is most certainly something to shout about and to be proud of.

TOP 200

QS WORLD UNIVERSITY RANKINGS by subject

Chemical Engineering

TOP 250

QS WORLD UNIVERSITY RANKINGS by subject

Electrical and Electronic Engineering

TOP 250

QS WORLD UNIVERSITY RANKINGS by subject

Mechanical Engineering

TOP 350

QS WORLD UNIVERSITY RANKINGS by subject

Computer Science and Information Systems

TOP 288

QS WORLD UNIVERSITY RANKINGS by faculty

Faculty of Engineering and Technology

TOP 160

QS UNIVERSITY RANKINGS ASIA

No.1 Private University in Malaysia

Closer to home, our performance in the QS Asian Rankings was even better this year, moving us up 40 steps for a placement within the Top 160 universities from our 2014 position within the Top 200 Asian universities. Here at home, we have retained our place as the top private university in Malaysia for the second year running.

Also a must-mention is one of our greatest achievements in terms of accreditation and recognition to date, namely the Malaysian Research Assessment (MyRA) rating which was conferred in November 2015. We are delighted to be the first private and non-research university in Malaysia to be awarded this highest performance level of 6 stars for research excellence. A great achievement, this is another recognition that attests to our firm commitment to become a leading research intensive university. What makes it sweeter is that we achieve the 6 stars rating together with the other 5 research universities.

These rankings and awards are grand and highly valued, coveted and appreciated and boost our credibility in academics and research. UTP is in fact a relatively new player in both research and education and these rankings and recognitions significantly contribute to our standing and value as a recognised institution of good standing.

More importantly, they are an affirmation that we are on the right track and the right trajectory. They also help us to fortify our strengths and identify gaps that need to be filled in order for us to go even further.

Connecting UTP to the World

On another note, inevitably and crucially linked with industry, UTP has always been clearly aware of the importance of industrial linkages. For us at UTP, this is who we are, a university that was essentially established to train engineers and supporting personnel to fill the needs of industry.

As such, forged since Day One, the link we have with various industries and institutions both locally and abroad, are pivotal to our success. We are constantly expanding and growing our network and collaborative efforts in the realisation that one of the keys for growth is networking with the right partners.

The university's link with industry has primarily been through three main bodies - the Academic Advisory Council (AAC), Research Advisory Council (RAC) and the Student Development Council (SDAC) - each of which plays unique roles in securing industry participation for various intents and purposes.

We have also just recently established a Strategic Alliance Office (SAO) that has been assigned as the go-to university body for networking and linkages, especially for research collaborations. There is much potential in this area of research, and the SAO was purposefully set up to source out, facilitate and pave the pathway for successful and meaningful collaborations in this arena.

In preparing our students for the global arena, we are every conscious that technology and modern advancements are making the world into one big global village. Keeping up with this trend as well as the globalisation of almost every aspect of modern life, we are constantly on the look-out for networking opportunities and links that will benefit both the university and the students. It is also imperative to keep abreast with the constant changes that are emerging, especially in the area of technology and engineering.

One of our most recent linkages included those with Texas A&M Engineering Experiment Station (TEES) on process safety. We also linked up with three Australian universities namely Monash University, the University of Melbourne and the Federation University from the State of Victoria to collaborate in several key areas namely corrosion, ionic liquids, shale gas, enhanced oil recovery, biofuels and biochemical and biomedical technology.

Another highlight of the year was the honour of becoming part of the International Neuroinformatics Coordinating Facility. Through one of our HiCoE's – Centre of Intelligent Signal and Imaging Research (CISIR) - UTP was appointed as the host of the Malaysia Node of this prestigious facility, placing us in a position of esteem and honour as we continue to research the human brain.

Meanwhile, UTP is also proud and honoured to be part of the NanoMalaysia Institute for Innovative Technology (NanoMITe) research consortium that was launched by the Minister of Higher Education. This invaluable opportunity and honour of becoming a member in this global consortium is an acknowledgment of UTP's commitment and capacity for research and development in nanotechnology.

It augurs well for the institution's goal to become a leading research university in the global world of academia and science.

UTP also became the first Malaysian university to implement Admissions Testing Services in collaboration with the University of Cambridge.

Collaborations and networkings such as these are truly in keeping with the purpose of a university that exists not only to create knowledge but to pave a pathway for the future successes of each new generation of the workforce.

Bringing Out the Best in Our People

As we achieve success after success and milestone after milestone, we must acknowledge the fact that these achievements are the result of the commitment and handwork of our people - our staff and our students alike.

First and foremost as an institution of higher education, our primary responsibility is to mould and develop our future generations. This is a responsibility that UTP is honoured and humbled to undertake and one which we uphold very seriously.

It is our job to bring out the best in them, through constant encouragement, motivation and the provision of facilities and opportunities.

This year, UTP sent off 1,154 graduates in our 15th Convocation Ceremony. Of these, 69 were PhD holders while 132 were Masters students and 953 graduated with their Bachelors' Degrees.

In addition to academics, our students have also done UTP proud this year, participating in various local and international events and exhibitions.

Eight of our interns assisted in the Mercedes AMG PETRONAS Formula One Team (MAMGP F1 Team) to win both the 2014 F1 Constructors and Drivers World Championship.

Also, two undergraduates did both UTP and Malaysia proud when they emerged as one the five finalists in the Shell Ideas 360 global student competition after beating 1,000 teams from around the world.

Both our students and our staff have raked in awards and medals for the university and these include five Gold, two Silver and two Bronze awards in the MTE 2015 and we also took the Anugerah Patron Kementerian Sains, Teknologi dan Inovasi 2015 during ITEX 2015.

From the staff and faculty side of things, Professor Dr Azmi Mohd Shariff added to the illustrious history of UTP with his recognition as one of the Top Research Scientists of Malaysia (TRSM) by the Academy of Sciences Malaysia. UTP's very own technologist, Adz Jamros Jamali meanwhile, won the

National Technologist Award 2015 by Ministry of Science, Technology and Innovation (MOSTI).

The year 2015 also saw a significant change in the management side of things for UTP. We bade farewell to Tan Sri Shamsul Azhar Abbas, who sat as UTP Pro Chancellor for the past 6 years and welcomed Datuk Wan Zulkiflee Wan Ariffin as our new Pro Chancellor. Datuk Wan Zulkiflee brings with him the wisdom and experience of more than 30 years as a captain of industry and we look forward to his leadership and guidance.

With the Wind in Our Sails

All said and done, 2015 has been a good year for UTP. We have many things to be proud of and we have come a long way.

Taking the lead from Stephen Covey, UTP began with the end in mind, knowing exactly the kind of university we ultimately wanted to be and knowing exactly what we want to achieve right from Day One.

Every brick laid, every foundation strengthened and every plan put in place will continue to have their own specific contribution to the goals and aspirations of UTP. We also value every accomplishment and every success, no matter how big or small, and celebrate every success for its own merit. Collectively they all contribute towards the achievement of our goals.

It has been said however, that even if you are on the right track, you will get run over if you stand still. For no matter how good you are, staying on top of the game takes constant work and commitment. In realising this, it is also good to note that the difference between "try" and "triumph" is a little "umph", that extra boost, the extra mile and the extra effort.

For us here at UTP, I am truly glad to say that everything that we do has that "umph" as it were, that wow factor that makes the difference. It is this that defines who we are, outlines what we stand for and propels us forward.

Armed with a well-designed blueprint that is constantly reviewed and updated, we continue to aim for loftier heights and higher aspirations, With clear vision and the wind in our sails, we are firmly headed for our future as an internationally recognised partner of choice for industries and a respected member of the scientific community.

Datuk Ir (Dr) Abdul Rahim Hashim

Rankings and Ratings

In the world of academia, rankings and ratings reflect standards that have been achieved and milestones reached by an institution of higher education. They also lend credibility and strengthen the university's position in the related fields and the various features for which it is ranked and rated.

Rankings also project the university's efforts and initiatives to stay on top of its game and continue to strive for improvement and excellence. UTP's concerted and concentrated efforts to be the best has earned it its place in the Top 160 in the QS Asian University rankings in 2015, a 40-step climb from the previous year's placement in the Top 200. The fact that we not only retained our position as a top university but also climbed higher on this scale is an achievement that we have worked hard for and something we are especially proud to proclaim.

Our placements in various subject rankings meanwhile bear testimony to our excellent programmes in the related fields. These subject rankings are highly significant for UTP as a university whose educational strengths gear toward engineering and technology courses.

On the local front UTP is still the Best Malaysian Private University. On top of this, our efforts in research and innovation have been recognised with the MyRA 6-Star rating award by the Ministry of Higher Education. This is a double accomplishment as UTP is the first private university to receive this award.

TOP 200

QS WORLD UNIVERSITY RANKINGS *by subject*

Chemical Engineering

TOP 250

QS WORLD UNIVERSITY RANKINGS *by subject*

Electrical and Electronic Engineering

TOP 250

QS WORLD UNIVERSITY RANKINGS *by subject*

Mechanical Engineering

TOP 350

QS WORLD UNIVERSITY RANKINGS *by subject*

Computer Science and Information Systems

TOP 288

QS WORLD UNIVERSITY RANKINGS *by faculty*

Faculty of Engineering and Technology

TOP 160

QS UNIVERSITY RANKINGS ASIA ™

No.1 Private University in Malaysia

QS STARS RATED FOR EXCELLENCE 2015

QS STARS RATED FOR EXCELLENCE 2015
EMPLOYABILITY
FACILITIES
INCLUSIVENESS

QS STARS RATED FOR EXCELLENCE 2015
INNOVATION
INTERNATIONALIZATION
TEACHING

(6 STAR)

MyRA®
MALAYSIA RESEARCH ASSESSMENT

TIER 5 (EXCELLENT)
Rating for Teaching and Learning

SETARA

D-SETARA

Paving the Way for Strategic Alliances

Understanding the growing importance of networking and working with the right partners, UTP established the Strategic Alliance Office (SAO). The primary role of this top-management initiative is to drive, manage and oversee UTP collaborations and partnerships with other universities, industry and governments.

The optimum management and facilitation of collaborative efforts will lead to more effective and successful implementation of initiatives and projects. These successful alliances will be the catalyst to achieving the university's goals and aspirations.

With clearly defined objectives, the SAO is poised to be a significant initiator and mediator of networking opportunities and collaborative partnerships for UTP.

The office, led and directed by Associate Prof. Dr. Fawnizu Azmadi Hussin, is focussing its efforts into three main sectors:

i. Positioning UTP closer to stakeholders

ii. Engaging with trade ministries, international technology transfer centres and conferences

iii. Connecting with SMEs and Government agencies to extend UTP's capabilities

In 2015, the SAO successfully facilitated 30 initiatives that led to the signing of Memorandums of Understanding (MOUs).

The SAO is expected to play a crucial role in creating UTP's pathway towards its future as it initiates strategic alliances with the right industry players, fellow educational institutions and government agencies, both locally and internationally. The establishment of this office is in perfect alignment with UTP's development blueprint as it moves towards Phase 5 which focuses on International Recognition (2016 - 2020) Towards Global Prominence.

ICT Transformation to Facilitate Growth

In keeping with the times and to facilitate the anticipated growth of the university, UTP has embarked on an overhaul of its management and administrative system, implementing a brand new comprehensive ICT programme.

GENESYS, as its name implies, heralds the dawn of a new era in the administrative landscape of UTP, a technology transformation programme that will be put in place over a period of 5 years.

Leveraging on new developments of the internet, mobility, analytics and business intelligence, GENESYS will provide UTP with a strong operational foundation to better support academics and research activities.

This ICT-driven management system, will encompass a Campus Management System (CMS), Enterprise Solutions (ES), and Infrastructure (INFRA) and will eventually include programmes for academics and research. A new core campus solution will manage all student related information from enrolment to graduation, while other systems will cover online payment, hostel management and the library.

With GENESYS, UTP becomes one of the first universities in Malaysia to initiate and implement such comprehensive and contemporary ICT solutions. It also elevates the university to the standing of other universities on the global stage in this area, placing us in good stead for future growth in line with the business blueprint towards 2020.

Working in and for the Community

There is a wise saying that goes like this - Give a man a fish and he eats for a day, teach him to fish and he eats for life.

In line with this adage, while we understand the financial needs of people our CSR objectives are focused on the two areas of socio-economics development and education.

The ultimate goal of UTP's CSR initiatives in socio-economic development is to develop surrounding communities which are economically sustainable, have positive social-well-being and imbued with a knowledge-driven culture. The economic focus meanwhile, is to shift the mindset from approaching needy communities as mere recipients of donations to active participants in wealth creation.

Work is constantly carried out in five core areas :

- Taking care of the elderly
- Offering health checks
- Youth Empowerment
- Research and Development
- Business and Entrepreneurship.

Meanwhile, as an institution of higher learning, the second prong of its CSR initiatives is to create an impact through education. This is being done through efforts to increase academic performance in schools, create awareness about the importance of education and nurture and develop talent in the effort to boost socio-economic growth.

These activities are carried out by committed staff and students as well as alumni members.

A Show of Support for Those in Need

The plight of the flood victims in central Perak and the East Coast touched the hearts of UTP staff and students. In a short period of time, RM70,000 in cash and in kind was raised and sent over to the victims to help ease their troubles.

While the money was used to buy essential food items such as rice, fish, vegetables and drinking water, much-needed various items collected such as blankets, clothes and diapers were also distributed. This was part of UTP's continuous outreach in its CSR programme. As responsible corporate citizens, UTP has always been continuously reaching out to the nearby community.

"We are humbled to be able to help our neighbours in their time of need. As a responsible corporate citizen, this is also our way of inculcating the culture of caring in our students" said UTP Vice Chancellor, Datuk Ir (Dr) Abdul Rahim Hashim.

About 1,000 members of our student and staff community also sacrificed their time to help clean up the affected areas in Perak in SK Lambor Kanan, SAR Rimba Raja Lambor Kanan and the Teluk Bakong Health Centre Lambor Kanan.

We also organised a heath talk conducted by Dr Subramaniam Suppiah from UTP Clinic on the importance of self-hygiene during and after the flood.

Patriotism...the UTP Way

During the 2015 Merdeka Day Parade in Kuala Lumpur, there was a small convoy of interesting looking cars.

These cars were UTP's very own Saga-Metro vehicles which made their public appearance for the very first time. In keeping to who and what UTP is, they showcased our advanced research on novel fuels and energy management.

The Saga-Metro electric vehicle was closely developed with Proton. It is powered by a 50 horsepower electric motor and 26-cell lithium polymer batteries. This environmentally friendly car has a maximum speed of 140km/h and was designed for an urban drive cycle. By reworking the energy management process of the vehicle, the carbon footprint of the vehicle is reduced.

UTP scientists have also successfully developed a water and diesel blend of fuel they call "Water In Diesel Emulsion (WiDE). The micro explosion of the small water droplets in the diesel improves combustion thus reducing fuel consumption and harmful exhaust emissions.

Created for old heavy duty vehicles that were not designed as environmentally friendly vehicles, this new fuel can also be used with any of the old and new diesel engines of today.

Continuing With UTP's Lecture Series

Our Chancellor YABhg Tun Dr Mahathir Mohamed graced our stage to present a public lecture this year. His topic for the day : Social Evolution in Malaysia: What's Next?"

Tun Dr Mahathir shared his thoughts on how Malaysian culture and society have changed over time, a phenomenon that is outside of our control. Exposed to both Western and Eastern influences and values, we have to differentiate for ourselves and choose the good while rejecting the bad.

Both the East and West have positive values that we here in Malaysia could emulate and apply for the development of our nation and economy, and these include the good values of China and Japan.

Tun Dr Mahathir captured the attention of the 3,000 people who attended the public lecture with his words of wisdom. He also took the time to answer a range of questions from politics to education.

This public lecture was part of UTP's lecture series that is a significant platform for the sharing of knowledge between speakers, the university and surrounding community. The topics covered in these sessions are wide and varied, ranging from national development and economics to corporate governance and education.

Tun Dr Mahathir also launched the UTP GENESYS programme and UTP's Corporate Social Responsibility book entitled "A Gift of Hope".

In his public lecture "Social Evolution in Malaysia: What's Next?" UTP Chancellor YABhg Tun Dr Mahathir Mohamad shared how Malaysia needs to make wise and right choices as the country evolves in a world that is changing at an unprecedented rate.

A Gathering of Intellectuals

UTP's Academic Advisory Council (AAC) met for the 13th time this year. The main agenda for the day was to strategise and outline the university's way forward as it heads towards global prominence.

The direction is to position UTP as a recognised partner of choice for industries and a respected member of the global scientifc community by 2025.

Established in 2003, UTP's AAC is a team of great minds from the scientific and academic community. The council meets annually to outline strategic directions for the development of the university, covering areas ranging from international collaboration to staff development and consultancy issues.

A Gift of Hope

The launch of UTP's CSR tome - A Gift of Hope - was a milestone in the university's CSR history.

This book details our CRS activities and undertakings through the years.

As an institution of higher learning, our work not only encompasses the formal education of the next generation, but is also to help and benefit the community at large at the grassroots level. We are very much aware of the influence and positive impact a university can have on society and so our CSR work is focussed on three areas - education, socio-economy and the environment - which directly impact the society.

UTP's CSR activities range from financial contributions, to entrepreneur development as well as innovative solutions to help the communities live better lives.

These activities emphasise the importance of providing recipients with sound responses to the challenges and realities of the economy, environment and society while giving aid to the people who are in need.

"A Gift of Hope" is a book that documents and illustrates some of these activities, highlighting UTP's relationship with the local society surrounding its campus.

"Follow effective actions with quiet reflection. From the quiet reflection will come even more effective action."

– Peter Drucker

Thoughts… from the DVC Academic

Prof Ir Dr Ahmad Fadzil Mohamad Hani

Learning and education has always been a part of the human existence. Long before formal education came into being, learning was part and parcel of life as the young had to acquire the skills and knowledge necessary for survival.

Preliterate society passed down such skills and information orally and through imitation with the earliest written records showing that formal education only came into play between 3,000 and 500 BC in Egypt.

Just as in the ages of old, education today also functions as a preparatory period for each generation as they stand on the threshold of independent adulthood. The difference today is that there are a myriad of paths and careers to choose from and because of this, each individual requires a different set of outcomes and experiences to create the best chances of success for their chosen paths.

As an institution of higher learning, our role then is not only to equip the students with the technical skills and the knowledge required for their chosen fields. Today's education necessitates that students also acquire analytical and critical thinking skills as well as soft skills to complete their arsenal. All these, and more, make up the whole experience of university education.

As such, while education is a much sought-after commodity with demand constantly on the increase, the arena of tertiary education is highly competitive. Universities and colleges all over the world are cognisant of this and the race to constantly be the best and offer the best is a challenging one for sure.

We at UTP take our role as providers of tertiary education very seriously. It is a responsibility that we shoulder with pride and honour, and with a firm understanding of the great significance of our task. For ultimately, the students that walk through our doors leave our gates with an indelible impression of their tenure with us. It is this experience that will form that all-important stepping stone for them as they leap-frog into their futures.

As such, our task is not only to always be contemporary and up-to-date in our curriculum and our programmes but better yet to be one step ahead.

Another Successful Year for the Books

Staying true to our mission as an institution of higher learning, UTP made great strides in academics in 2015. It was a continued year of excellence for us, from the graduates who walked away with their coveted degrees to the awards and recognitions we achieved for academics as well as the tie-ups we finalised with esteemed partners.

We are very proud that we have maintained our standing as the Best Private University in Malaysia while also climbing to the Top 160 in the QS Asian University rankings. By subject, our placing in the QS World 2015 rankings for Chemical Engineering (Top 200), Mechanical & Electrical & Electronic Engineering (Top 250) and Computer Science and Information Systems (Top 350) affirms the quality of these courses and attests our commitment to offer the best.

This year we also introduced 2 new programmes - the MSc in Process Safety and Bachelor of Engineering (Hons) Computer Engineering.

The MSc in Process Safety has been designed to meet current needs and the ever increasing demand for process safety professionals in Malaysia and also in the Asia Pacific region. Recent regional statistics reflect a tremendous development of Major Hazard Installations, indicating the need for specialised industrial practitioners who can manage process safety hazards.

The main objective of this programme is to deepen understanding and equip students with advanced skills and expertise in process safety, loss prevention and risk assessment. Our MSc in Process Safety is a distinguished and leading programme of its kind in the region. It was jointly developed with the Mary Kay O'Connor Process Safety Centre (MKOPSSC), a well-known process safety institution.

Meanwhile, the Bachelor of Engineering (Hons) Computer Engineering programme is a discipline that draws heavily on electronic engineering and computer science topics. The Computer Engineering Programme provides an outstanding, cutting-edge education in electronics and computer systems with an emphasis on hardware and software.

Computer engineers are involved in exciting times with unlimited, rapidly expanding opportunities and their contributions are not limited to areas with applications such as telecommunications and computer systems but also extend into areas of applications such as in manufacturing, medicine, banking systems, online transactions, gaming platforms, embedded systems and many more.

At Universiti Teknologi PETRONAS, students will be trained with a strong foundation in physics, mathematics and chemistry, followed by a thorough coverage of electrical and electronic engineering courses and computer science courses. These courses include electrical technology, analogue electronics, digital electronics, microprocessor, digital signal & system analysis, algorithm and data structure, software engineering and operating systems. At higher levels, students are exposed to data and computer networking, computer systems architecture, embedded systems, distributed & parallel computing and big data application. In the final year, students will have the opportunity to major in one of the selected areas of interest:

UTP now has 3 faculties that offer 1 foundation and 11 undergraduate courses, while we have 10 masters programmes by coursework, 10 masters programmes by research and 10 PhD programmes.

The university admitted 1972 new students for the year, 1495 who enrolled in foundation programme, while 170 came in for undergraduate programmes. Another 169 and 138 joined us for their Masters and PhD programmes respectively.

As we head into our future, UTP is well-aware of the need to step up our role in producing high quality postgraduate students with Masters and PhD qualifications who will further pave our way towards research and innovation. We are glad to say that we graduated 72 Masters and 69 PhD (by research) students this year, exceeding our own targets and goals for the year. Meanwhile, we also sent off 60 Masters by coursework students.

UTP was also very active in organising various postgraduate conferences, forums and enrichment workshops to further inculcate and strengthen the research culture within our university. These yielded us a good number of papers while our forums garnered encouraging responses. I am also glad to say that we produced 654 approved indexed publications and an impressive 1468 papers for the two Biennial PostGraduate Conferences for the year.

While we are all very much aware of the challenging times faced by the global economy in general and the oil and gas industry specifically, it is heartening to note that the demand and focus on education is still clearly evident and is in fact growing. This is rightly so as education is an investment that leads far into the future.

Also, the most challenging times bring us the most empowering lessons.

At the end of the day, to quote Nelson Mandela,

"education is the most powerful weapon which you can use to change the world."

Centre for Student Internship, Mobility and Adjunct Lectureship (CSIMAL)

Enriching the UTP Experience with CSIMAL

The Centre for Student Internship, Mobility and Adjunct Lectureship (CSIMAL) has had a good run this year, with increased numbers in all three of its focus areas.

This increase in mobility - both inbound and outbound - augurs well for both the university and its community (students and staff) as it broadens perspectives, enriches programmes and increases knowledge. It also sweetens the UTP name, especially beyond Malaysian shores.

As ambassadors for UTP, students who cross the oceans for internship programmes and attachments showcase the excellent standards of education at UTP while information and viewpoints from visiting lecturers enrich our programmes and keep us in the loop regarding industry requirements and developments.

Student Internship

UTP's student internship programme is a very significant part of its academic curriculum and is regarded very highly in both academic and industry spheres.

This seven-month programme is highly valued by students and many graduates have attributed their success in the working environment to the opportunities availed to them in this programme.

For 2015, 1,682 students registered for student internship programmes. CSIMAL was instrumental in 179 of them securing placements with

companies overseas. This number represents 10.64% of the total number of students under the internship programme this year.

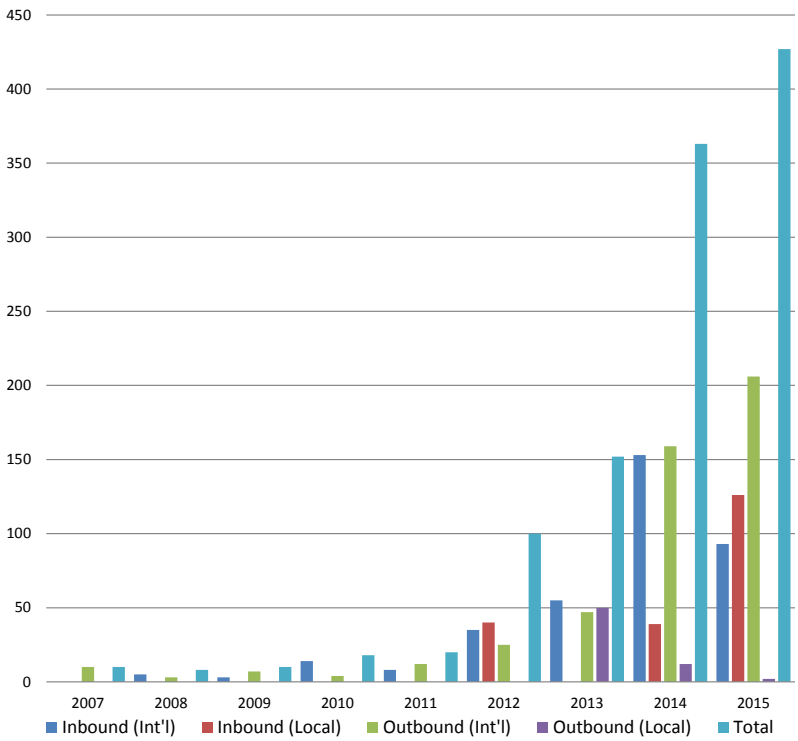
Student Mobility

One of UTP's key strengths is its student mobility programme

There was a significant increase of 17% in the overall total number of students on the Mobility Programme when compared to 2014. Of the 219 inbound students, two were post-graduate with the rest being undergraduates.

Meanwhile, 208 UTP students represented the university in various programmes overseas, including student exchange programmes. Three of these were post-graduate students.

These mobility programmes for 2015 resulted in an overall increase of 9.8% in the student population.



Student Mobility Statistic 2007 - 2015

Adjunct Lectureship

UTP's close links with industry has led to its very successful Adjunct Lectureship programme. Initiated in 2009, there has been a steady rise in both the number of Adjunct Lecturers and lectures at UTP.

In 2015, 72 new candidates were appointed as Adjunct Lecturers with the appointments of 7 candidates renewed. As for lectures, there was a 29% increase from the 107 lectures in 2014 to 138 this year.

Technopreneurship Initiative

Launched early this year, the Technopreneurship Initiative was implemented to inculcate entrepreneurship values among UTP students and graduates. It encourages students to delve into their creativity and business acumen and is designed to inspire them to bring technological ideas and innovations to the business sphere, expand ideas and identify business possibilities and potential. One of the goals is also to establish a Technopreneurship Development Centre (TDeC).

Centre for Teaching and Learning (CETaL)

Keeping Up With The Times In Teaching Methods

The Centre for Teaching and Learning (CETaL) has forged ahead with its agenda of looking into improving teaching and delivery methods. Initiated in the final quarter of last year, the centre was established to study teaching methods to design ways and means to improve the impartation of knowledge to our students.

Much has been planned, organised and accomplished by this young research centre during this year, encompassing various objectives and goals.

One of the key focus areas was to create and increase awareness of the role of CETaL. This was carried out through constant engagement sessions at department level and efforts increased the enrolment of academic staff as CETaL members from 10% to 32% for the year. This positive response was highly encouraging and the centre will continue its efforts in this area to attract the participation of more staff.

We are also strongly encouraging lecturers to be more innovative in designing flexible models of learning and to support this , four distinguished seminar series were held. Two Scholarship of Teaching and Learning (SoTL) workshops were also organised, drawing in the participation of 87 academic staff members.

As for the SoTL clinic, it has resulted in the commencement of 20 projects for CYCLE 1 & 2 for 2015. The primary goal of these clinics was to look into the use of technological devices for academic delivery.

To enhance research activities, we sent in four entries to the I-PHEX 2015 (Innovative Practices for Higher Education Expo) organised by UTM. For this, we brought home three awards - two silver and one bronze.

On the financial side of things, CETaL is proud to announce that it has been granted 20 SoTL grants to the tune of RM470,602 that have already been disbursed.

Meanwhile, CETaL closed the year on a high note with UTP's inaugural Teaching and Learning Innovation Festival (TLIF) held late in the year. The event was attended by 150 students and staff members and one of the highlights was a forum to present and debate 21st century learning skills, new teaching ideas, techniques and technology. The secondary object was to foster stronger connection between teaching and research among the staff.

CETaL has already outlined further plans and action steps that will take UTP Towards Global Prominence.

Centre for Graduate Studies (CGS)

CGS... Enhancing Possibilities, Developing Potential

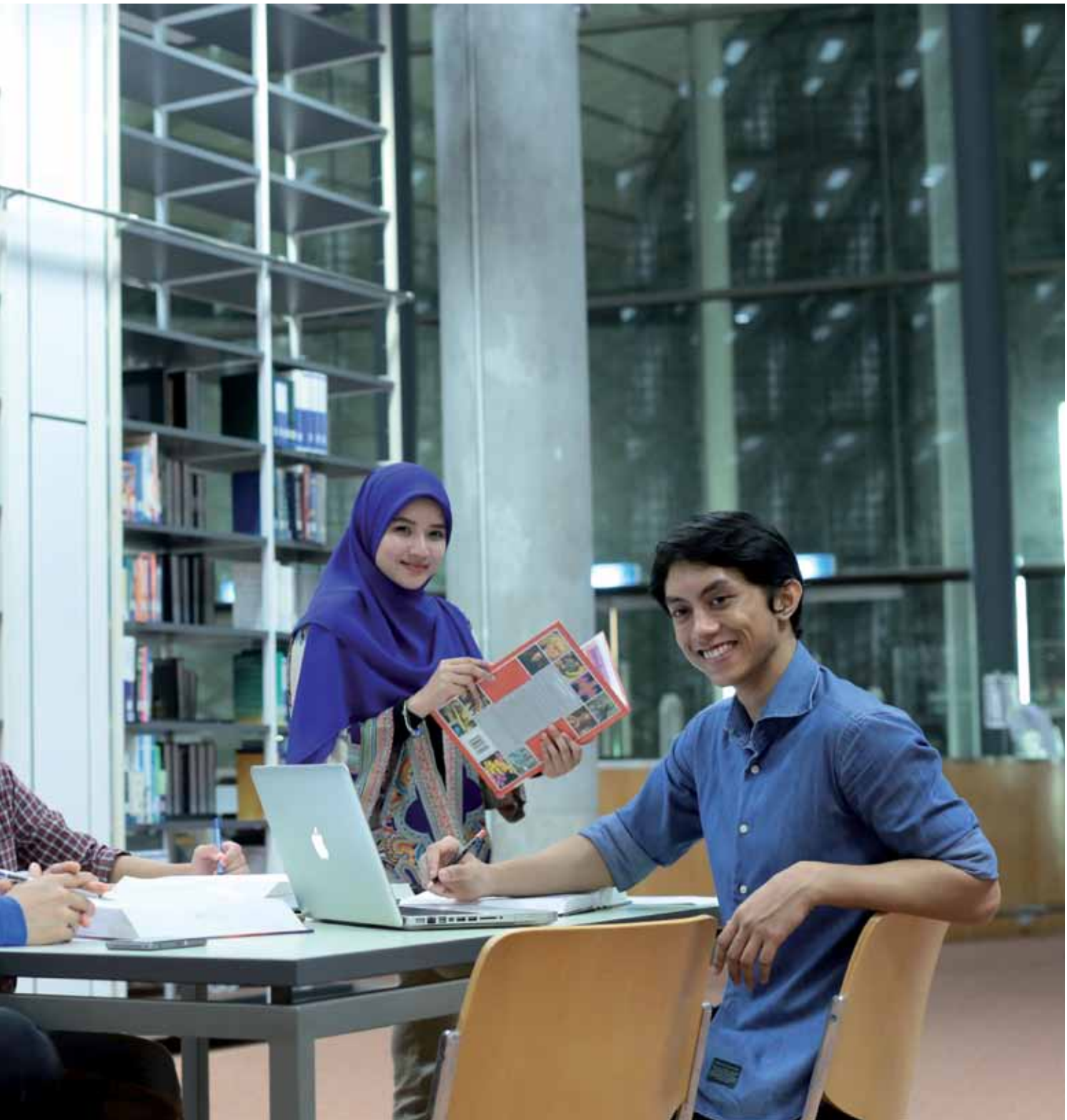
Heading towards the future of education, it is clear that technological and scientific advances would inevitably necessitate and produce more post-graduates students. As a university of the future, our Centre for Graduate Studies is specifically dedicated to this endeavour.

The responsibility of the CGS is to strengthen UTP's position as an excellent and preferred centre for graduate studies and to oversee all matters pertaining to post-graduate students. Its main goals also include the inculcation and strengthening of the research culture within UTP.

UTP offers a wide spectrum of graduate courses designed to provide excellent in-depth studies and specialisation opportunities for the science, engineering and technology arenas. Post-graduate students can work towards their graduate degrees either through coursework or research. One of our key strengths is our strong linkages to industry that provide unique opportunities for the integration of academic research and industry applications.

Supported by state-of-the-art facilities and research labs, many of which we are proud to say are unique to UTP and also the region, we are continuously increasing our profile and prestige in the world of graduate studies. Key focus areas include Enhanced Oil Recovery, Carbon Dioxide Management, Deepwater Technology, Nanotechnology, Green Technology, Biomedical Technology, Hybrid Energy Systems, Intelligent Cities and Sustainable Resources.

Moving rapidly towards global excellence, we recognise that the journey towards research university status is very much dependent on the critical mass of researchers, and especially graduate students. With a clear vision of the work we need to do, we are moving forward and are committed towards playing our role towards UTP's goals and aspirations.



This year, we are proud to record 654 approved indexed publications, of which 294 came from the university's academic community and 360 came out of the efforts of postgraduate students. We also produced 1468 papers for the Biannual Postgraduate Conference, of which 287 made it into various non-indexed journals. Meanwhile, 70 theses were converted into books.

Other activities of the CGS include forums and workshops to promote research excellence.

To date, UTP has produced more than 13,000 graduates and currently has an enrolment of over 6,000 undergraduates and 1,200 postgraduates from more than 60 countries around the world.

In 2015, we graduated 69 PhD students, 72 Masters (research) and 60 Masters (coursework) graduates, coming from 9 departments.

Programme by Research				
No.	Department	PhD	Master	Total
1.	Chemical Engineering	11	18	29
2.	Civil Engineering	10	9	19
3.	Electrical & Electronic Engineering	12	14	26
4.	Mechanical Engineering	5	10	15
5.	Petroleum Engineering	2	2	4
6.	Petroleum Geoscience	2	5	7
7.	Computer & Information Sciences	24	9	33
8.	Fundamental & Applied Sciences	3	3	6
9.	Management & Humanities	0	2	2
	Total	**69**	**72**	**141**

Programme by Coursework	Total
MSc in Electronic System Engineering	5
MSc in Advanced Process Control	4
MSc in Asset Management & Maintenance	11
MSc in Process Integration	4
MSc in Petroleum Geoscience	9
MSc in Petroleum Engineering	11
MBA in Energy Management	16
Total	**60**

As a university that is closely and indelibly linked with industry, the CGS, led by Associate Professor Dr. Mohd Fadzil Hassan, is armed with UTP's invaluable opportunities and pathways for potential cutting edge research and industry relevant scientific and innovation forays.

Students will also have the opportunity to undertake applied research or industrial projects in collaboration with our industry partners. This makes UTP one of the ideal choices for graduate studies in the bid to expand the frontiers of technology, especially in the oil and gas field and its related industries.

Academic Central Services (ACS)

Keeping Things in Check...

The UTP name is synonymous with quality. To ensure that this quality is the hallmark of every part of the university and each and every one of its offerings and services, the university management and administration keeps a keen eye on every aspect of operations.

With various facilities, the ACS looks into plans and strategies for the development, continuous revision and improvement of all things academic at UTP, ensuring that they are consistent with the university's Vision and Mission. These include policies, guidelines, regulations, procedures and standards pertaining to academic curriculum, quality assurance, administration and operation and other related academic requirements.

The unit also oversees the development and growth of academic staff and provides strong support to facilitate the optimum delivery of educational content to the students. Its goal is to ensure the teaching and learning process is at its best at UTP.

This is also where the ACS plays a role, designing training programmes for academic staff and conducting workshops to help lecturers, technologists and graduate teaching assistants to improve delivery and performance and to keep them in the loop on new methods in the technology-driven classroom. Lecturers and tutors are evaluated by students twice each semester, with feedback constructively used for quality improvement.

The department also organises the meetings for academic departments with their respective Industry Advisory Panels and International External Examiners. In order to assist the students in the learning process, institutionalised systems such as the Student Advisory System (SAS) and Mentor Mentee Programme (MMP) are now in place.

One of the key drivers of the ACS is to keep UTP abreast with QS and D-SETARA requirements and initiatives.

Efforts here include increasing graduate satisfaction and curriculum reviews with industry, among others. The ACS is also the designer of new academic programmes and in 2015, UTP introduced the Bachelor of Engineering (Hons) Computer Engineering and the MSc in Process Safety.

Raising The Bar For Applicants

With the implementation of the Thinking Skills Assessment (TSA) and Cambridge Personal Styles Questionnaire ® (CPSQ), UTP continues to up its ante in its pursuit to admit the best of students to produce the best of graduates.

Creating history UTP became the first university in Malaysia to screen applicants for its foundation and undergraduate programmes using the Thinking Skills Assessment (TSA) and Cambridge Personal Styles Questionnaire ® (CPSQ).

Assessing the student's aptitude, attitude and learning capacity, these tests further enable UTP to ensure that its commitment to quality is maintained and strengthened in its pursuit to only produce the best of graduates.

Priding itself on nurturing students who are not only technically competent but who are also able to think critically on their feet and are solution oriented, the implementation of this assessment is hand-in-glove with UTP's objective to produce well-rounded graduates.

The MOA with the University of Cambridge's Admissions Testing Service (ATS) was signed in January and the applicants for the May intake of students became the pioneer batch to undergo this assessment.

The ATS is part of Cambridge Assessment, an international exam group that designs and delivers assessments to more than 8 million learners in over 170 countries. Founded in 1858, it is a non-profit department of the University of Cambridge that is committed to ensuring that all its assessments are fair, are underpinned by sound ethical considerations and operate according to the highest technical standards.

In incorporating these assessments and standards, UTP strengthens its commitment to excellence and quality.

Upskilling Our Technology Graduates

UTP became the first Malaysian university to be part of the SAP University Alliances (UA) programme which comprises more than 2,000 universities, 8,000 professors and 4 million students worldwide.

This programme provides members access to resources from SAP, a market leader in enterprise application software. This entry into the SAP UA Programme will allow UTP students to receive hands-on experience with SAP HANA (HAsso's New Architecture), an in-memory computing platform, data analytics and other cloud technologies.

About Floating Platforms and Strategic Roles

Professor Dr Kurian V John delivered UTP's second professorial lecture in August. He shared information about the current state of deepwater technology in relation to floating platforms and the role UTP plays, with a special focus on South East Asia and Australasia.

Hacking in the Name of Cyber Security

The second UTP-HAX Naional Hacking Competition - UTP HAX 2015 - attracted 42 teams from various universities.

Organised by UTP in collaboration with CyberSecurity Malaysia, KPerak Implementation & Coordination Corporation (KPerak) and Fortinet, it is modelled after the Cyberlympic Hacking Competition.

Designed to draw out the best hackers at tertiary level, the goal is to encourage the next generation of computing professionals to view ethical hacking as a positive exercise. It also provides an optimum platform for students to channel energy and exercise creativity to develop skill in the area of cyber security.

UTP HAX challenges students to become ethical hackers in the bid to create a pool of quality hackers in the name of cyber security. This is in line with Cybersecurity Malaysia's aim to produce at least 600 security personnel in Malaysia each year to ensure the security of internet users.

This national level hacking competition champion will advance to the UTP-HAX Regional Competition next year which anticipates the participation of 11 Asia Pacific nations. UTP hopes that expanding the competition regionally would open up more avenues, bring in more ideas and intensify interest in careers in the cyber security industry, an area which is attracting more and more focus today.

Emerging Tops with an Ingenious Idea

To come up tops out of some 1,000 teams from the world over is indeed a highly commendable and successful accomplishment. Such is the mettle of UTP students that this is exactly what 2 of our students did. Petroleum Engineering students Omer Choudhry and Chaw Yin Nyein put forth their idea called "The New Protein" in the Shell Ideas360 Global Competition and made it to the finals together with teams from Singapore, Qatar, the United States and the United Kingdom.

The competition was themed around developing innovative ideas to address Energy, Water and Food Challenges. UTP's entry of "The New Protein" addressed the world's problem of malnourishment and the idea here was to use crickets as an alternate source of protein.

Crickets apparently have nearly as much calcium as milk and more protein per gm of body mass than cows while only requiring one-twelfth (1/12) of the feed and land in comparison to their bovine counterparts. They also produce just one-eighteenth (1/18) of the methane that cows do!

As such, cricket farming, an idea derived from a newspaper report about children collecting locusts for meals, could possibly be another way to feed the world. All things considered then, crickets may just prove to be a viable future source of protein, and seeing as 24% of the world's 7 billion population are undernourished, this may just prove feasible.

The best part is that as crickets grow really quickly, it could take as little as six weeks for a farm to start producing cricket protein.

A Rousing Send Off for Our 2015 Graduates

Following the traditions of years past, the 2015 Convocation celebrations were filled with bursts of colours and sounds, flooding the usually quiet and peaceful campus grounds with a hive of activity. These included the Convofest, Convo Run and the YUTP Charity Gold tournament which raised some RM250,000 for the foundation.

Meanwhile the 2015 Convo Ride, one of UTP's CSR activities, attracted more than 600 cyclists. Coming in from all over Malaysia, the participants covered a 45km distance in the event. Organised since 2012, UTP received more than RM100,000 worth of sponsorships and donations this time round.

In conjunction with this year's Convo Ride, 200 school children were gifted with bicycles, bringing the total number of bicycles donated to more than 400 since the programme started in 2012.

The highlight of the celebrations was of course the convocation ceremony itself, and it was a time to rejoice, a time to cry, to breathe a sigh of relief and to open new doors to the future.

This time round, our 15th convocation, we had a total of 1,154 graduates, of which 953 were bachelors degree holders. Of these, 73% walked off the stage with first and second class upper honours degrees.

We also sent off 69 PhD graduates and 132 Masters Degree holders which included the first ever batch of 16 Master of Business Administration (Energy Management) students and two who received their Masters of Philosophy.

"Do not be embarrassed by your failures, learn from them and start again."

– Richard Branson

Thoughts... from the DVC Research and Innovation

Prof Dr Abdul Rashid Abdul Aziz

In the world of science the WH questions of the English Language - WHo, WHen, WHat, WHy, WHere, WHich and of course the all important HoW - are the key drivers of research and innovation.

Blessed with an innate curiosity, the human mind is constantly asking these questions and in answering them, especially in relation to challenges and problems that arise in the course of daily living, new knowledge is created.

This is how and where necessity becomes the mother of invention. As clichè as this statement may be, we cannot deny the truth and weight that it carries. History, dating back to the stone-age, has documented how man fashioned implements for hunting and gathering i.e to solve a problem.

Bringing it down to basics then, research and innovation is propelled by this penchant and need to solve problems and the relentless curiosity of man about his environment and the desire to constantly improve.

While the needs and problems of today has far surpassed the imagination of perhaps even 50 years ago, the same principles apply. So we are brought back time and again to the WH questions above which interestingly enough can be both the catalysts for new ideas and innovations or solution providers for existing problems.

For UTP, research and innovation is one of our two key thrusts, the other of course being academic excellence. These two focus areas are in fact the cornerstones and hallmarks of any university of repute in the global arena.

Having successfully achieved recognition as a premier university - especially for technology education - we are intently pursuing our goal of global prominence in research and development.

Combining the Best Ingredients for the Best Outcomes

The success of any endeavour is dependent on the right combination of ingredients and the effective implementation of the correct steps.

As we work our way towards recognition as a world-class research facility, we are fully aware that we need to pay constant attention to the essential components that will propel us forward. For us, the focus is a three-pronged strategy of mission oriented research, developing a strong research culture, and industry collaborations.

UTP's nine Mission Oriented Research (MOR) centres are well positioned to take us into the high level playing field of research. These MORs are entities that bring together researchers from multiple disciplines with common interests to create solutions for industry and to generate new knowledge for the mutual benefit.

Our nine centres collectively hold facilities and equipment that are worth more than billion ringgit invested over the years. In many of these centres we are proud to have many "firsts" and "onlys" in terms of equipment in Malaysia and Asia. Some of our equipment are also among the few of its kind globally. These enable us to carry out more exhaustive and detailed analysis and research activities while also creating an optimal research environment. We are also able to offer premier services in our fields of expertise and carve our name as innovative solution providers.

Having put in place the facilities, the next step is the people. While we can humbly proclaim that our staff as well as our students have done us proud on both the local and international fronts with their many successes and wins, there is always room for more growth.

Towards this end, UTP is constantly and diligently working on strengthening the culture of research to bring out the best in our people, both our students and staff. We are glad to report that our best is definitely making its appearance as seen by an incremental rise in the percentage of Principal Investigators against total Academic staff over the past 5 years. In 2015, 95% of our 384 academic staff members were Principle Investigators (PI) for research projects. Also, more than 90% of our researchers received grants from various parties to fund their work.

Our students are also making us proud with their various efforts and wins in competitions locally and internationally.

Overall, 2015 was a record year for us. We brought home 67 awards from ITEX, 10 from MTE and 19 from PECIPTA 15. We were granted 9 patents, filed another 30 and successfully commercialised 3. On top of these, UTP researchers filed 48 copyrights, trademarks and industrial designs.

Meanwhile, we continue to actively seek out opportunities to network and collaborate with the right people in industry, academia and research. Some of the significant events for 2015 include our participation in the global consortium of researchers for the NanoMalaysia Institute for Innovative Technology (NanoMITe) as well as the honour of hosting the INCF Malaysia Node.

We do all this and we will do even more in the next phase of our development blueprint as our goal is to move from good to great.

The field of research is infinite and is only limited by our imagination. There is much more to be found, much more to be done and much more to discover and create...and we want to be part of this.

PUSH

Research and Innovation Awards

26th International Invention, Innovation & Technology Exhibition 2015 (ITEX 2015), Kuala Lumpur, 21 - 23 May 2015

No.	INVENTOR	PRODUCT	AWARD
1.	Aamir Malik	Intelligent Treatment Selection System for Mud	Gold
2.	Ahmad Kamil Bin Mahmood	Rescue-i	Bronze
3.	Ahmad Majdi Bin Abdul Rani	Slip on Sprocket	Other
4.	Ahmad Majdi Bin Abdul Rani	Slip on Sprocket	Gold
5.	Anita Binti Ramli	Green Sorbent for Post- Combustion CO_2 Removal	Silver
6.	Azmi Bin Mohd Shariff	PC-GLY:An Eco Friendly Solvent For CO_2 Capture	Silver
7.	Bashar S Mohammed	Safe Median Barrier	Bronze
8.	Bashar S Mohammed	UHPECC for Bridge Deck Link Slab	Bronze
9.	Bawadi Bin Abdullah	Real Time Wax Reader	Gold
10.	Cecilia Devi A/P Wilfred	Aqua Appils for CO_2 Capture	Silver
11.	Dayang Rohaya Binti Awang Rambli	VOP:Video on Paper	Silver
12.	Faiz Ahmad	Nanocomposite Heat Sink for Led Light Applications	Silver
13.	Faiz Ahmad	Fire Safe Coating For Structural Applications	Silver
14.	Fakhruldin Bin Mohd Hashim	Supersonic Subsea Compact Wet-Gas Separator	Other
15.	Fakhruldin Bin Mohd Hashim	Supersoinic Subsea Compact Wet-Gas Separator	Gold
16.	Goh Kim Nee	Accident Predictor and Alert System	Silver
17.	Hanita Binti Daud	M-IRMS: Mobile Apps Islamic Ruqyah	Silver
18.	Ibrahima Faye	Document Image Clean Up and Enhancement	Silver
19.	Irraivan A/L Elamvazuthi	EDiT	Gold
20.	Irraivan A/L Elamvazuthi	i-LAUREATE	Gold
21.	John Ojur Dennis	CMOS: Mems Mass Sensitive Humidity Sensor	Silver
22.	Khamaruzaman Wan Yusof	Solid Waste Resistant Urban Drainage	Gold
23.	Ku Zilati Binti Ku Shaari	SustCoat	Bronze
24.	Kurian Velluruzhathil John	VIV FORCE TOTALER	Silver
25.	Mohamad Azmi Bin Bustam @ Khalil	CLASORBS	Bronze
26.	Mohamed Hasnain Isa	Anaerobic Coupled-Integrated Sequential Anoxic Aerobic (AN-ISA) Reactor	Silver
27.	Mohamed Ibrahim Bin Abdul Mutalib	De-Acidification of Crude Oil Using HBIOIL	Other
28.	Mohamed Ibrahim Bin Abdul Mutalib	De-Acidification of Crude Oil Using HBIOIL	Gold
29.	Mohd Faizairi Bin Mohd Nor	R3PH-Rural Run River Pico Hydro	Other
30.	Mohd Faizairi Bin Mohd Nor	R3PH Rural Run River Pico Hydro	Gold

No.	INVENTOR	PRODUCT	AWARD
31	Mohd Haris Bin Md Khir	Electro Power	Silver
32.	Mohd Haris Bin Md Khir	INSIGNE	Bronze
33.	Mohd Shahir Liew	EASEMOOR	Silver
34.	Mohd Shahir Liew	POSEIDON	Bronze
35.	Mohd Shahir Liew	Pre - Decommissioning Asset Management System for Fixed Offshore Structures	Bronze
36.	Mohd Zamri Bin Abdullah	DAMS ARAGONA1 LIQUIMUD	Silver
37.	Mokhtar Bin Awang	Auto Reinforce Magnetic Flywheel (ARMFLY)	Silver
38.	Montasir Osman Ahmed Ali	MOOROPT14	Gold
39.	Muhd. Fadhil Bin Nuruddin	SIDOA BIND	Bronze
40.	Nagarajan Thirumalaiswamy	Shape Memory Alloy (SMA) Actuated Stwart Platform For Ankle/Foot Rehabilitation	Gold
41.	Nagarajan Thirumalaiswamy	Pseudo Wrist Motion Using SMA Wire Actuation And split-tube flexure	Gold
42.	Nasir Shafiq	LCPM SUM:Low Carbon Precint Modelling for Sustainable Urban Development In MALAYSIA	Bronze
43.	Nasir Shafiq	GREEN-UFCK:Ultra Fine Calcinated KAOLIN Produced By A Novel Technique	Bronze
44.	Noor Asmawati Binti Mohd Zabidi	Tri Promoted CZMZNS Catalyst	Silver
45.	Norani Muti Binti Mohamed	Standalone Solar Panel for Hydrogen Production	Gold
46.	Norani Muti Binti Mohamed	Durable Pressure and Strain Gauge Using Ultra- Long CNT	Silver
47.	Nordin Bin Sa'ad	COMONDI:An Intelligent Diagnostic Condition Monitoring System for Induction Motors	Silver
48.	Noreen Izza Binti Arshad	Stuter Manager	Silver
49.	Norshuhani Binti Zamin	ROBOFEEDER: A Smart Food Dispenser For Pets	Gold
50.	Norshuhani Binti Zamin	WAKEY:A Hillarious Alarm Clock For The Sleepy Heads	Silver
51.	Norshuhani Binti Zamin	EDUBOT:A New Robotic Approach For Special Education	Silver
52.	Norshuhani Binti Zamin	MySafeLand: A Landslide Early Warning System using GSM Technology	Bronze
53.	Shamsul Rahman Bin Mohamed Kutty	GARDENIA CARINATA SHELL ACTIVATED CARBON (GCSAC):A Vovel Low Cost Adsorbent	Silver
54.	Shamsul Rahman Bin Mohamed Kutty	Integrated Submerged Attached Growth System (i-SAGS)	Silver

No.	INVENTOR	PRODUCT	AWARD
55.	Suhaimi Bin Hassan	Portable Electric Car Jack	Bronze
56.	Suzana Binti Yusup	Natural low transition temperature mixtures (LTTMs) as green solvent	Silver
57.	Suzana Binti Yusup	H2OIL Bio-Oil Production From Oil Palm Biomass Using Sub-and Supercritical Water As a Green Solvent	Bronze
58.	Tang Tong Boon	Brain-Navi: Brain Networks Automated Visualization Framework for MEG data	Bronze
59.	Varun Jeoti Jagadish	TORLIP: Tranhorizon Offshore Radio Link Planner	Silver
60.	Vijanth Sagayan A/L Asirvadam	Real Time Age-invariant Face Recognition in the Crowd (RAFRC)	Bronze
61.	Wan Fatimah Binti Wan Ahmad	MFAC	Gold
62.	Wan Fatimah Binti Wan Ahmad	VrTUALIZE:Road Safety	Silver
63.	Wan Fatimah Binti Wan Ahmad	MathLD	Silver
64.	Wan Fatimah Binti Wan Ahmad	HAJJg:Mobile Hajj Guide	Bronze
65.	Wong Peng Wen	MICROTOR	Silver
66.	Yoshimitsu Uemura	Torrefaction Process By Using Flue Gas And Its Product (TORREFIED BIOMASS)	Gold
67.	Zuhairi Bin Baharudin	MEMS Tuneable Filter	Gold

Malaysia Technology Expo 2015 (MTE 2015), Kuala Lumpur, 20 - 22 Feb 2015

No.	INVENTOR	PRODUCT	AWARD
1.	Ahmad Majdi Bin Abdul Rani	Slip-on Sprocket	Bronze
2.	Hanita Binti Daud	IRMS Islamic Rukyah Medication System	Gold
3.	Mohd Haris Bin Md Khir	INSIGNE	Silver
4.	Mohd Haris Bin Md Khir	VEHS	Bronze
5.	Mohd Shahir Liew	POSEIDON	Gold
6.	Noreen Izza Binti Arshad	Stutterer Manager	Other
7.	Noreen Izza Binti Arshad	Stutterer Manager	Gold
8.	Norshuhani Binti Zamin	AUTISTHERAPIBOT	Gold
9.	Suzana Binti Yusup	IMeBS	Gold
10.	Wan Fatimah Binti Wan Ahmad	MFAC	Silver

Persidangan dan Expo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2015 (PECIPTA 15), Kuala Lumpur, 4 - 6 Dec 2015

No.	INVENTOR	PRODUCT	AWARD
1.	Ahmad Majdi Bin Abdul Rani	SLIP-ON SPROCKET	Bronze
2.	Cecilia Devi A/P Wilfred	AQUA-Apils for CO_2 Capture	Bronze
3.	Faiz Ahmad	Fire Safe Coating for Structural Applications	Silver
4.	Faiz Ahmad	Nanocomposite Heat Sink for Led Light Applications	Gold
5.	Fakhruldin Bin Mohd Hashim	Supersonic Subsea Compact Wet-Gas Separator	Gold
6.	Hanita Binti Daud	Mobile Apps Islamic Ruqyah Medication System	Silver
7.	John Ojur Dennis	CMOS-MEMS MASS-Sensitive Humidity Sensor	Bronze
8.	Kurian Velluruzhathil John	VIV FORCE TOTALLER	Silver
9.	Mark Ovinis	Motorized Acute Ready Kart (MARK II)	Bronze
10.	Mohamad Azmi Bin Bustam @ Khalil	CLASORBS	Bronze
11.	Mohamed Ibrahim Bin Abdul Mutalib	De-Acidification of Crude Oil Using HBIOL	Bronze
12.	Mohamed Ibrahim Bin Abdul Mutalib	De-Acidification of Crude Oil Using HBIOL	Silver
13.	Mohd Faizairi Bin Mohd Nor	R3PH-Rural Run River Pico Hydro	Bronze
14.	Mohd Haris Bin Md Khir	ELECTRO-POWER (V-Energy Extractor)	Bronze
15.	Nasir Shafiq	GREEN-UFCK: Ultra-Fine Calcinated KAOLIN Produced By a Novel	Gold
16.	Noreen Izza Binti Arshad	STUTTER MANAGER	Silver
17.	Suzana Binti Yusup	IMEBS- Integrated Methyl Esters Blending System using Hydrodynamic Cavitation	Gold
18.	Suzana Binti Yusup	IMEBSIntegrated Methyl Esters Blending System using Hydrodynamic	Other
19.	Wan Fatimah Binti Wan Ahmad	MFolktales-Malay Folktales App	Silver

Patents Granted

No.	ID PATENT	INVENTOR	DEPARTMENT	PATENT
1.	PI2012000653 MY-154222-A	Faiz Ahmad	Mechanical Engineering	Method of Thermal Management of Portable Electronic Element Using Carbon Nanotube Metal Nanocomposite
2.	PI2011000751 MY-155943-A	Azween Bin Abdullah	Computer & Information Sciences	Underwater Acoustic Communications System and Method Thereof
3.	PI2012000689 MY-155963-A	Mohamed Hasnain Isa	Civil Engineering	Apparatus And Process For Low Temperature Thermal Degradation of Hazardous Organics
4.	PI2012005457 MY-155944-A	Hilmi Mukhtar	Chemical Engineering	Mixed Matrix Membranes Composed of Pure Silicoaluminophospate for fluid separation and a Method of producing the same
5.	PI2012002474 MY-155935-A	Noorhana Binti Yahya	Fundamental & Applied Sciences	Catalytic Ammonia Synthesis
6.	PI2011003693 MY- 155595-A	Ahmad Fadzil M. Hani	Electrical & Electronic Engineering	Methodology and Apparatus For Early Detection and Grading of In Vivo Knee Osteoarthritis
7.	PI2011000768 MY- 155704-A	Nasir Shafiq	Civil Engineering	Concrete Admixture And Method Of Preparation Thereof
8.	PI2012000687 MY- 155982-A	Fakhruldin M Hashim	Mechanical Engineering	A System, A Method and A Computer-Readable Medium for Configuring at least one Product Over A Computer Network
9.	PI2011000363 MY- 155968-A	Azween Bin Abdullah	Computer & Information Sciences	Energy Efficient Method for Use in Wireless Network Sensor

Patents Filed

No.	ID PATENT	INVENTOR	DEPARTMENT	PATENT
1.	PI2015701189	Nasreen Binti Badruddin	Electrical & Electronic Engineering	Congestion Avoidance, Detection and Alleviation Scheme for Routing in Wireless Sensor Networks
2.	PI2015701278	Shahir Liew	Civil Engineering	An Intelligent Vibration Structural Control System
3.	PI2015701403	Azmi Bustam	Chemical Engineering	Ionic Liquids for Separation of Benzene and Cyclohexane
4.	PI2015701481	Mohd Zuki Yusoff	Electrical & Electronic Engineering	Method to Enhance Performance of Feature-based Modulation Classification Algorithms for Multiple-Input Multiple-Output Systems using Post-Processing Signal-to-Noise Ratio
5.	PI2015701588	Mohd Zamri Abdullah	Chemical Engineering	Sustainable Drilling Fluid Formulation Utilising Green Weighting Agent and Method of Producing Thereof
6.	PI2015701560	Fakhruldin M Hashim	Mechanical Engineering	A System and Method of a Supersonic Subsea Compact Wet-Gas Separator for Gas Transmission Pipeline
7.	PI2015701569	Aamir Saeed Malik	Electrical & Electronic Engineering	Methodology of using Electroencephalogram (EEG) for Major Depressive Disorder (MDD) Patient Diagnosis and Antidepressants Efficacy Prediction
8.	PI2015701573	Azmi M Shariff	Chemical Engineering	A Solvent for Removing CO_2 from a Gas Stream
9.	PI2015701596	Irraivan Elamvazuthi	Electrical & Electronic Engineering	An Integrated System and Method for 3D Ultrasound Reconstruction and Production of 3D Physical Models for Diagnosis of Anterior Talofibular Ligament
10.	PI2015701598	Suzana Yusup	Chemical Engineering	Natural Low Transition Temperature Mixtures (LTTMS) and Process for Making the same
11.	PI2015701608	M Fadhil Nuruddin	Civil Engineering	Construction Material
12.	PI2015701615	Zuhairi Haji Baharuddin	Electrical & Electronic Engineering	RF MEMS Based Tunable Substrate Integrated Waveguide Bandpass Filter and Method of Producing Thereof
13.	PI2015701619	Azmi Bustam	Chemical Engineering	Bentonite Clay Adsorbents Modified by Amines for Removal of Carbon Dioxide

No.	ID PATENT	INVENTOR	DEPARTMENT	PATENT
14.	PI2015701629	Anita Ramli	Fundamental & Applied Sciences	Amine Functionalized Si-MCM-41 Adsorbent for Carbon Dioxide Removal
15.	PI2015701636	Shamsul Rahman Mohamed Kutty	Civil Engineering	Waste Derived Adsorbent for Wastewater Treatment
16.	PI2015701638	Norani Muti Binti Mohamed	Fundamental & Applied Sciences	A Novel Photocatalysts for Standalone Solar Panel to Produce Hydrogen
17.	PI2015701782	Bawadi Abdullah	Chemical Engineering	Real-Time Wax Monitoring Sytem
18.	PI2015701742	Mohamed Ibrahim Abdul Mutalib	Chemical Engineering	Hydroxide-Based Ionic Liquids and Processes for Deacidification of Crude Oil by using the same
19.	PI2015701821	Varun Jeoti	Electrical & Electronic Engineering	System and Method to Compute Impulse Response from Vector Network Analyzer Data
20.	PI2015702314	Zuhairi Haji Baharuddin	Electrical & Electronic Engineering	Radio Frequency (RF) Energy Harvester Circuit and RF Energy Harvester Employing the same
21.	PI2015702890	Hussain Hammud Ja'afer Al-Kayiem	Mechanical Engineering	Solar Vortex System
22.	PI2015702898	Varun Jeoti	Electrical & Electronic Engineering	Trans-Horizon Offshore Radio Link Planner System and Methods Thereof
23.	PI2015703095	Ku Zilati Ku Shaari	Chemical Engineering	Fertilizer Coating Composition and Method for Coating Fertilizer
24.	PI2015703179	Cecilia Devi Wilfred	Fundamental & Applied Sciences	Aqua Aminor Acids Polymerized Ionic Liquids for CO_2 Capture
25.	PI2015703787	Zakaria Man	Chemical Engineering	Controlled-Release Fertilizer and Method of Preparing Thereof
26.	PI2015704436	Lau Kok Keong	Chemical Engineering	High Frequency Ultrasonic Agitator for Compact Gas Absorption and Desorption System and Method Thereof
27.	PI201704443	Rosdiazli Ibrahim	Electrical & Electronic Engineering	Method for Addressing Packet Dropout in Networked Control System
28.	PI2015704507	Tang Tong Boon	Electrical & Electronic Engineering	Method for Building and Verifying Metal Oxide Semiconductor (MOS) Low Frequency Noise Model
29.	PI2015704560	Irraivan Elamvazuthi	Electrical & Electronic Engineering	System and Method for Rehabilitation of Upper Extremities
30.	PI2015704580	Balbir Singh Mahinder Singh	Fundamental & Applied Sciences	Titanium Dioxide/Graphene Nanocomposite Preparation by using Paste Method

Products Commercialised

No.	PRODUCT	INVENTOR
1.	Math Aid 2.0	Wan Fatimah Wan Ahmad
2.	MFAC: Malay Folktales Animated Courseware	Wan Fatimah Wan Ahmad
3.	Stutter Manager	Noreen Izza Arshad

Other IPRs

No.	PRODUCT	INVENTOR	REGISTERED NAME	CATEGORY
1.	MathsLD: Fun with Numbers	Assoc Prof Dr Wan Fatimah Wan Ahmad	MathsLD	Copyright
2.	MFAC: Malay Folktales Animated Courseware	Assoc Prof Dr Wan Fatimah Wan Ahmad	MFAC	Copyright
3.	Mobile Apps Islamic Ruqyah Medication System	Dr Hanita Daud	m-IRMS	Copyright
4.	Mooring Optimiser V14.0	Dr Montasir Osman Ahmed Ali	MoorOpt14	Copyright
5.	Mobile Application for Stutters to Practice Speaking and can be Monitored by their Speech Pathologists.	Dr Noreen Izza	Stutter Manager	Copyright
6.	Intelligent Treatment Selection System for Major Depressive Disorder (MDD)	Assoc Prof Dr Aamir Saeed Malik	DRA-1	Copyright
7.	EaseMOOR: A Fast Track Vessel Spread Mooring Design Tool	Assoc Prof Dr M Shahir Liew	EasM1	Copyright
8.	Pre-Decommissioning Asset Management System for Fixed Offshore Structures	Assoc Prof Dr M Shahir Liew	DAMS1	Copyright
9.	Transhorizon Offshore Radio Link Planner	Assoc Prof Dr Varun Jeoti	TORLi	Copyright
10.	An Intelligent Condition Monitoring and Fault Diagnostic System for Induction Motors	Assoc Prof Dr Nordin Sa'ad	COMONDI	Copyright
11.	Mooring Optimiser V15.0	Dr Montasir Ahmed Ali	MoorOpt15	Copyright
12.	Image Processing of Wax Crystal Images (from Cross Polarized Microscope) to Determine WAT, Shape and Crystallization Growth using MATLAB	Assoc Prof Dr Azuraien Japper-Jaafar	IMPROWAX01	Copyright
13.	Survey Design Optimization Method in Complex Overburden Region	Assoc Prof Dr Abdul Halim Abdul Latiff	SDH-V1	Copyright
14.	EASi Alarm System- First Line Innovation	Dr Subarna Sivapalan	ESi24	Copyright
15.	On-line Monitoring for Domestic Distribution Box	Mohamad Yasin Bin Baharudin	AuPReS	Copyright
16.	VRtualize	Assoc Prof Dr Wan Fatimah Wan Ahmad	VRtualize	Copyright
17.	A Novel and Hybrid Intelligent System for Load Electrical Demand Forecasting	Assoc Prof Dr Zuhairi Baharudin	GA-ANN	Copyright
18.	ROBOFEEDER: A Smart Food Dispenser for Pets	Dr Norshuhani Zamin	ROBOFEEDER	Copyright
19.	EDUBOT: A New Robotic Approach for Special Education	Dr Norshuhani Zamin	EDUBOT	Copyright
20.	LAMOSYS: A Landslide Early Warning System using GSM Technology	Dr Norshuhani Zamin	LAMOSYS	Copyright
21.	WAKEY: A Hilarious Alarm Clock for the Sleepy Heads	Dr Norshuhani Zamin	WAKEY	Copyright
22.	A Novel Classification of Seismic Attribute in South Asis Basin	Prof Dr Deva Prasad Gosh	NOCLSEAT	Copyright
23.	Method for Lithology Discrimination, Hydrocarbon Prediction and Petrophysical Properties Estimation using SQp and SQs Attribute	Prof Dr Deva Prasad Gosh	HyLiDisc	Copyright
24.	An Intelligent Prediction System (IPS) for Long-Term Memory Retention	Assoc Prof Dr Aamir Saeed Malik	IPS	Copyright
25.	Stakeholder Management Model for Carbon Capture and Storage	Assoc Prof Dr Zulkipli Ghazali	SMCCS	Copyright

No.	PRODUCT	INVENTOR	REGISTERED NAME	CATEGORY
26.	Management Model for Plant Turnaround Maintenance Performance	Assoc Prof Dr Zulkipli Ghazali	MMPTMP	Copyright
27.	The Extended Value Co-Creation Model	Assoc Prof Dr Zulkipli Ghazali	EVCCM	Copyright
28.	A Model of Employees' Safety Behaviour Management of Downstream Oil and Gas Companies in Malaysia	Assoc Prof Dr Zulkipli Ghazali	ESBMM	Copyright
29.	Hybrid NGC for Diagnosis and Monitoring of Morphoea	Dr Lila Iznita Izhar	MORPHOEA	Copyright
30.	Gas Hydrate Crytallizer	Assoc Prof Dr Khalik M Sabil	MY 13-01428-0101	Industrial Design
31.	Fatigue Test Fixture	Assoc Prof Dr Mokhtar Awang	15-E0100-0101	Industrial Design
32.	Car Jack	Ir Dr Suhaimi Hassan	15-E0103-0101	Industrial Design
33.	Electric Generator	Mohd Faizairi Mohd Nor	15-E0106-0101	Industrial Design
34.	CSI	Prof Dr Deva Prasad Ghosh	2013015647	Trademark
35.	CCR	Assoc Prof Ir Dr Mohktar Che Ismail	2013015649	Trademark
36.	CCR	Assoc Prof Ir Dr Mohktar Che Ismail	2013015648	Trademark
37.	CSI	Prof Dr Deva Prasad Ghosh	2013015646	Trademark
38.	OECU	Assoc Prof Ir Dr M Shahir Liew	2013015650	Trademark
39.	COREOR	Assoc Prof Ir Abdul Aziz Omar	2013015652	Trademark
40.	OECU	Assoc Prof Ir Dr M Shahir Liew	2013015651	Trademark
41.	COREOR	Assoc Prof Ir Abdul Aziz Omar	2013015653	Trademark
42.	AALDS	Penny Goh Kim Nee	2014001772	Trademark
43.	SAMA	Assoc Prof Dr Salah E. Zoorob	2014001773	Trademark
44.	Vege Block	Assoc Prof Dr Salah E. Zoorob	2014001774	Trademark
45.	SafeBlock	Penny Goh Kim Nee	2015052969	Trademark
46.	i-RESCUE	Assoc Prof Dr Ahmad Kamil Mahmood	2015053205	Trademark
47.	CAPS	Prof Dr Azmi Mohd Shariff	2015062984	Trademark
48.	ONEBAJA	Prof Dr Noorhana Yahya	2015067284	Trademark

MyRA Six-Star Rating

UTP makes history as the first private and non-Research university in Malaysia to achieve the MyRA Six-Star Rating.

UTP successfully earned the coveted Six-Star MyRA rating, making history as the first private and non-Research university in Malaysia to achieve this award.

We were recognised for work in eight different areas - quantity and quality of researchers and research work, the number and quality of postgraduates, innovation, professional services & gifts, networking & linkages and support facilities.

All these are key components in the makings of a world-class and internationally recognised research university, attested by MyRA's recognition for having achieved the highest performance for research excellence.

This latest accomplishment joins the coveted ranks of UTP's other prestigious national and international recognitions achieved in less than 2 decades.

Another Step Into the World of Nanomites

UTP is proud to have been invited to be part of the global consortium of researchers in the exciting field of nanomites technology and we are now a member of the NanoMalaysia Institute for Innovative Technology (NanoMITe).

The is the world's first official initiative that brings together researchers and scientists from world renowned institutions in the bid to research, develop and strengthen nano- technology enabled solutions and applications. This global collaboration will focus on the core areas of energy, wellness, medical and healthcare, food and agriculture, electronics, devices and systems and the environment.

UTP is honoured to be part of this esteemed global group and we are committed to dedicate our resources and research capacity towards the goals and aspirations of NanoMITe.

Our efforts will be supported and undertaken by our Centre of Innovative Nanostructure and Nanodevices (COINN). This Mission Oriented Centre is equipped with state-of-the-art facilities within the campus and are aligned for high- impact and in-depth nanotechnology research.

UTP is the only private Malaysian university that is part of this international collaboration, with the other local universities being UTM, UKM, UPM, UM and USM. Foreign partners include high profile universities such as Harvard and Stanford, who together make up the current 38 members of NanoMITe.

A Mobile Application Successfully Launched

Adding to UTP's many "firsts", the launch of the Mobile Islamic Ruqyah Medication System (M-IRMS) became the first faith-based mobile application for faith healing.

The M-IRMS, the first in the world, is a recording of special prayers and verses from the al-Quran that is read by the founder of the Islamic medical centre, Darussyifa', Datuk Dr Haron Din.

Datuk Dr Haron said the reading of these prayers and verses can be used to heal various ailments including general, physical and spiritual health as well as mystical disturbances.

He mentioned that the application had the potential to become a reference point for the Muslim community in Malaysia and other areas in Southeast Asia that uses Malay as a medium of instruction. The English version is also in the pipeline.

The M-IRMS is the brainchild of Dr Hanita Daud who heads the project at UTP. She feels that the M-IRMS application would enable the community to seek faster and more accurate treatment options by reading the al-Quran and Hadis. The fact that it had the full support from Datuk Dr Haron, who is a well-known figure in Islamic treatment further added to its relevance and value.

This application has won several awards at national and international levels. It recently clinched a Gold medal at the Malaysia Technology Expo.

It is available for download in both Android and iOS.

CISIR Hosts INCF Malaysia Node

One of our Centres of Excellence, CISIR, was given international recognition by having the honour of hosting the International Neuroinformatics Coordinating Facility (INCF) Malaysia Node.

Led by Professor Ir Dr Ahmad Fadzil Mohamad Hani, who also heads CISIR, the INCF Malaysia Node will kick off with research projects to improve the outcome of patients with brain trauma, dementia and epilepsy.

This collaboration will involve doctors, neuropsychologists and engineers from Malaysia and will be part of a larger European Commission led study, CENTER-TBI. INCF will provide assistance through the sharing of expertise in big data management and infrastructure, data standards and clinical protocols. It will link Malaysia to global neuroscience experts from the Japan Brain/MINDS project and the European Human Brain Project.

CISIR has selected brain trauma as its first project so as to be able to directly bring about benefits to society. Brain trauma is one of the leading causes of death in the country and makes up 11.37% of all emergency room cases. Additionally, Malaysian clinicians in brain sciences are well-respected globally for their competency and they are very keen to collaborate.

This endeavour is indeed timely as the brain is one of the greatest and grandest scientific challenges today. This has given birth to Neuroinformatics, an approach to handling the complexity in brain studies.

Neuroinformatics integrates information across all components of the brain, from genes and cells to functional networks and behaviour, all to develop a complete picture of the brain system. It is the coming together of the research of biomedical engineers, computer scientists, mathematicians, data scientists, physicists, biomedical engineers, statisticians and clinicians - and the application of big data analytics and computational neuroscience to extract insights from experimental studies by neuroscientists and geneticists.

Another UTP Star ... In the Scientists' Hall of Fame

UTP officially has one of the best brains in Malaysia in the person of Professor Dr Azmi Mohd Shariff who was inducted into the scientists' hall of fame.

Strength after strength and success after success have earned Professor Dr Azmi Mohd Shariff the distinction of being among the Top Research Scientists of Malaysia (TRSM). This officially certifies that UTP has one of the best brains in the country.

This scientists' hall of fame, under the auspices of the Academy of Sciences Malaysia (ASM) in 2010, is a database of the best intellectuals of Malaysia. The TRSM comprises top researchers and scientists in the country, and recognises those who actively generate new knowledge and introduce new discoveries that have the potential to benefit the nation socio-economically.

Prof Azmi has the distinction of being the very first scientist from UTP to be given this honour. He now is part of the 110 esteemed members of this elite group.

Heading the CO_2 Capture Research and Advanced Process Safety research centres in UTP, he is a passionate academician and dedicated researcher, with a wealth of knowledge in these two areas of specialisation. With 20 patents and copyrights behind him, he has led more than 25 research projects to date.

Proudly Announcing Our Award Winning Technologist

Adz Jamros Jamali makes UTP history as the first UTP Technologist to win the National Technologist Award 2015.

Adz Jamros Jamali joined UTP's hall of fame and made history as the first UTP Technologist to win the National Technologist Award 2015. He was recognised for his contribution to the invention of the Cylindrical Dielectric Resonator Antenna Array 802.11a WiFi Application.

Adz's work resulted in a small and compact high performance portable antenna that is easy to use, with a wide coverage area and a higher data capacity for WLAN use. Measuring just 30mm x 40mm, it can potentially play a significant role in modern consumer communications.

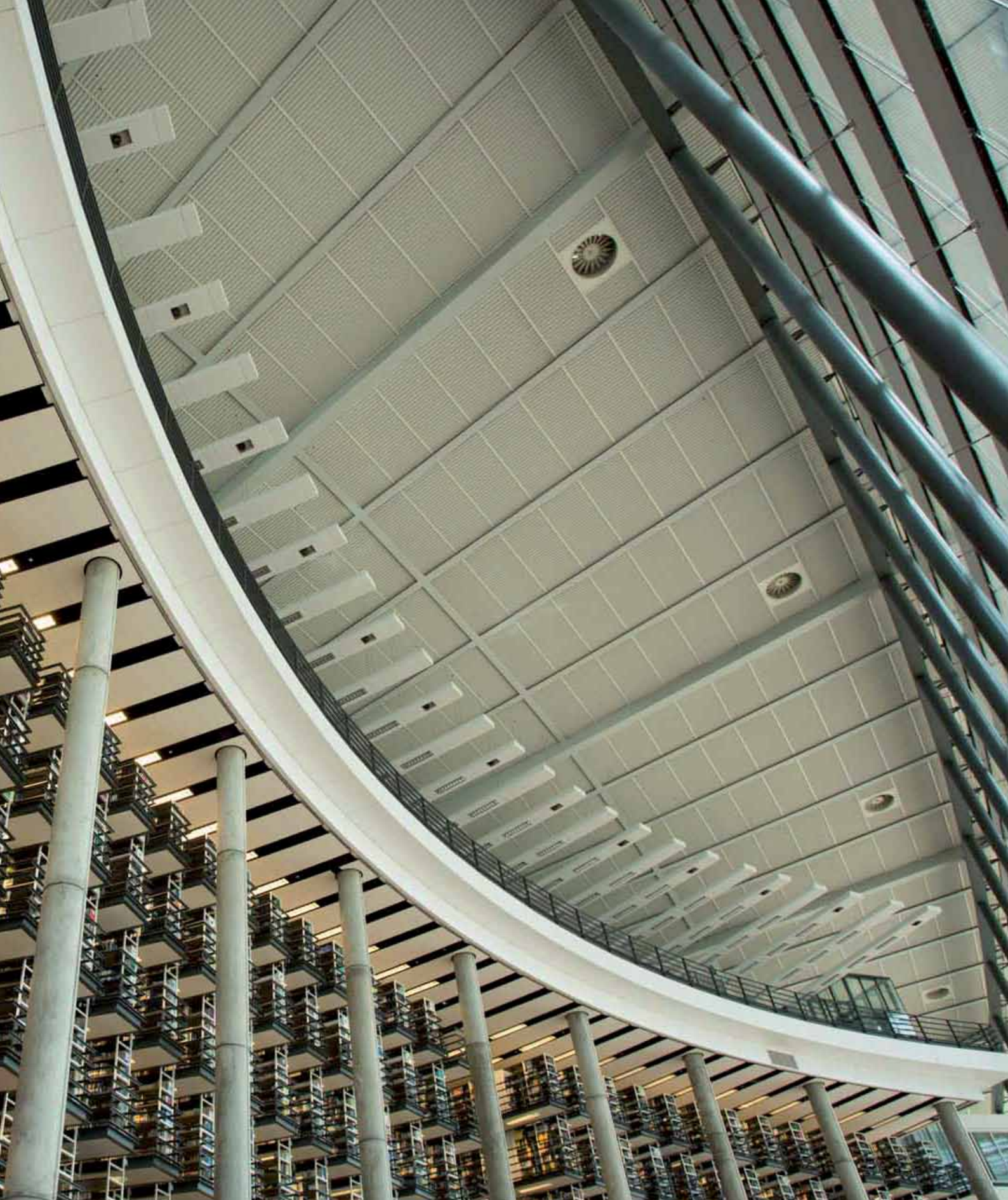
His primary role was in the setup of experiments, measurements, data collection and analysis, and also collaboration with the researchers and scientists who were involved in the work to enhance the prototype.

The award, an annual prize given by the Ministry of Science, Technology and Innovation, recognises the achievements of technologists and laboratory assistants in research work in the field of science and technology.

Our winner, Adz, has worked in UTP for the past 10 years and is currently pursing his MSc in Electrical and Electronic Engineering at UTP.

"If you are not willing to risk the usual, you will have to settle for the ordinary."

– Jim Rohn



Thoughts... from the DVC Student Affairs and Alumni

Mohamed Noor Rosli Baharom

Moving from the small schoolyard to the wide open spaces, large lecture halls and colossal building clusters of a university is an exciting experience. It can also be a daunting one.

The university is effectively a transitionary period from childhood to adulthood, a stepping stone into the brand new world of the working environment, it is filled with the unknown. On top of this is the inescapable fact that today's businesses and economies demand that the graduate be equipped with more than book knowledge and technical skills.

As a whole, the university takes on quite a responsibility in preparing the students for the next step of life and there is much to consider and a myriad of developmental activities to put in place.

This is the role of the Student Affairs department of the university. Its responsibilities are not merely confined to enrolment and administrative matters but encompasses the whole student experience.

UTP's key thrusts here is to develop and nurture students into global citizens.

With 20% of our students made up of the international community and some 26% of our staff from various nations around the globe, the student environment in UTP is already the right one for this goal. Interaction and learning within a global community expands the mind and broadens vision while exposing the students to various mindsets, ideas and viewpoints.

The right atmosphere however is more than a mix of cultures and nationalities. A lot of effort goes in to create avenues and opportunities for the students to expand their creativity, broaden the imagination and develop their abilities and capabilities. UTP works hard to create various opportunities to teach and embed positive values, knowledge, life skills, good character and attitude.

Armed with these attributes and anchored by a strong and comprehensive value system, UTP graduates walk out not only with their degrees but with a set of competent skills that will carry them through life.

Producing Graduates Who are Well Rounded Global Citizens

I am proud to say that UTP students are quite an impressive lot and we are very pleased with them. First and foremost they are the cream of the crop as our student enrolment process is very selective and employs stringent criteria.

We handpick our incoming undergraduates with the help of the Cambridge Assessment Testing Services and we carefully nurture this elite group, out of which arise our stars.

We have many success stories of undergraduate and postgraduate students who are creating lasting and significant impressions in research, innovation, competitions as well as industry. These students are true ambassadors of UTP and bear testimony to the mission we are committed to.

Our students are resilient, determined and committed to excellence and they are continually and increasingly making their mark in the world while being inspirational as well. One example is our 2015 graduate, Irene Lock Siew Mei who battled cancer to excel as one of our top students. Such is the mettle and tenacity of UTP students.

On another note, we are glad to say that despite the challenging times of recent years, UTP graduates are still in high demand, with almost 90% of our graduates securing employment within the first six months of graduation. Apart from the excellent industry- relevant courses we offer, we also have the best structured industrial internship programme in the country, endorsed by TalentCorp Malaysia.

This is indeed one of our own trademarks and affirms our position as a successful and valued institution of higher education and a recognised training ground for the next generation of quality workforce.

Our graduates are absorbed into various sectors with 61% employed in the oil and gas industry and the others spread over various other industries.

UTP graduates are the first choice by the industry because of the quality and talent presented. This talent is developed by our superior industry-relevant curriculum and enriched by a structured co-curriculum programme designed to challenge the students to be the best in their class.

The industry recognises our graduates for their skills and acumen in leadership and management, communication and problem solving. They are also valued for their adaptability, resilience and strong drive for success.

UTP's commitment to students does not stop with the glamorous Convocation Ceremony.

To date, we have 13,539 alumni members (as of the graduating class of 2015), many of whom are closely connected to the university in various activities. They regularly organise career and leadership talks for secondary school students, motivational and leadership camps as well as engagement sessions with graduating classes.

Many of our former students are also active in community service and give generously for worthy and humanitarian causes. We even have our very own alumni football team!

Through our alumni divisions we keep in touch with them, creating win-win relationships between UTP and its graduates and acting as a conduit between industry and the university. Our alumni through the Alumni Association and also in their personal capacity, have become very effective brand ambassadors for the university. Both in national and international arenas, our alumni has taken up various position of influence and are now becoming shakers and movers of industry and of the nation's development.

At the end of the day, for UTP, our students are our assets, our products and our success.

Do Good.
Do More.
Do Better !

Arts & Cultural Achievements

No.	EVENT/TOURNAMENT	DATE	VENUE	ACHIEVEMENT
1.	Free Circle 5th Year Anniversary Dance Competition	17-18 Jan	Lot 10, Kuala Lumpur	2on2 Bboy Battle: Top16 (Chow Swee Kwan & Chow Chun Fei)
2.	Student Talent Enrichment Programme (STEP) Dance Workshop FESCO 2015	28 Feb	Universiti Tenaga Nasional (UNITEN)	
3.	International Culture Night 2015	13 Mar	Chancellor Hall, Universiti Teknologi PETRONAS	
4.	Ensemble of Gamelan 2015	28 Mar	Chancellor Hall, Universiti Teknologi PETRONAS	
5.	Tapestry of Colours 2015	17 May	Dewan Filharmonik PETRONAS, KLCC	
6.	Shuddup N' Dance 2: Ipoh Parade Dance Competition (Qualification Round)	30-31 May	Ipoh Parade Shopping Centre, Ipoh	Group Showcase: 1st Runners Up (Qualified to Grand Finals)Solo 1on1 Battle: Top32 (Chow Swee Kwan & Khairul Zeeta, Qualified to Grand Finals)
7.	Festival of Colour of The World (FESCO) 2015 Seminar	6 Jun	Seminar Room 7 & 8, Universiti Teknologi PETRONAS	
8.	Shuddup N' Dance 2: Ipoh Parade Dance Competition Grand Finals	7 Jun	Ipoh Parade Shopping Centre, Ipoh	Group Showcase: 1st Runners Up (Qualified to Grand Finals)Solo 1on1 Battle: Top32 (Chow Swee Kwan & Khairul Zeeta, Qualified to Grand Finals)
9.	Festival of Colour of The World (FESCO) 2015	7 Jun	Chancellor Hall, Universiti Teknologi PETRONAS	
10.	Red Sonata Fiesta 2015	12-13 Jun	Chancellor Hall, Universiti Teknologi PETRONAS	
11.	Dance Never Stop : Street Dance Competition	14 Jun	Aeon Seri Manjung Shopping Center, Sitiawan	Champion: UTP Interbeatz Crew, 3rd Runner in Solo Bboy 1on1 Battle
12.	AGNI KL 2015	12 Jul	Chin Woo Indoor Stadium, Kuala Lumpur	Champion : UTP THE STAGE BREAKERZ
13.	Istanbul International Chorus & Folk Music Competition 2015	21-27 Jul	Kozzy Kultur Merkezi, Istanbul, Turkey	1st Runner Up - Malaysia (89%)
14.	Feel The Beat, Dance: Road 2 Ninja Competition	2 Aug	UTAR Kampar Dance Club	Group Showcase: 2nd Runners Up
15.	Euphonious 2015	8 Aug	Chancellor Hall, Universiti Teknologi PETRONAS	
16.	1 World 1 Culture – International Student Culture 2015	14 Aug	Ministry of Higher Education, PUTRAJAYA	Champion
17.	London 2015:Pasar Malam Event (Tourism)	18 Sept	Trafalgar Square , London	

No.	EVENT/TOURNAMENT	DATE	VENUE	ACHIEVEMENT
18.	A Taste Of Malaysian Culture	19 Sept	Nottingham Arts Theatre, Nottingham	1st Runner Up -Tronoh Theatre Shop
19.	Festival Theater Perak 2015	6-11 Oct	Auditorium Kompleks Jabatan Kebudayaan dan Kesenian Negeri, Perak (JKKN)	
20.	Cheonan World Dance Festival 2015	7-11 Oct	Cheonan, South Korea	
21.	A Taste of Malay Music : Gamelan Concert 2015	31 Oct	Auditorium Radio Televisyen Malaysia (RTM) Perak, Ipoh	
22.	CSR Programme: Gamelan-Music Exchange Programme With UITM Perlis' Gamelan	28 Nov	Gamelan Room at Block B, UTP	
23.	UTP Colours of Ranggoli 2015	28 Nov	Chancellor Hall, Universiti Teknologi PETRONAS	
24.	Bhangra Dance Off 2015	5 Dec	Chancellor Hall, Universiti Teknologi PETRONAS	2nd Runner-up, People's Choice Award : Gajjdi Jawani, Malaysia

Sports Achievements

No.	EVENT	DATE	VENUE	ACHIEVEMENT
1.	UTAR National Sanda & Tuishou Open Championship	16-18 Jan	UTAR, Kampar, Perak	1 Gold
2.	Perak National Poomsae Championship 2015	17 Jan	Ipoh, Perak	2 Golds
3.	Kejohanan Tiga Penjuru – UTP, Navy & Puo 2015	17-18 Jan	Politeknik Ungku Omar, Ipoh	2 Golds
4.	Kursus Asas Kayak Anugerah Bintang 1 2015	23-25 Jan	UTP Lake	STEP Program
5.	Grand Asean Chess Championship (GACC) 2015	26-31 Jan	Universiti Malaya (UM), Kuala Lumpur	2nd Best IPT in Malaysia
6.	Festival Dan Kejohanan Pencak Silat Taming Sari UKM 2015	25 Feb-1 Mar	Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor	1 Gold & 1 Bronze
7.	Spring Break Volleyball League 2015	1 Mar	Dewan Jabatan Belia & Sukan Negeri Perak, Ipoh	3rd Runner Up
8.	Rugby UTP 10'S 2015	13-15 Mar	UTP Sports Complex	Champion Cup
9.	Kejohanan Badminton Melayu Perak 2015	20-22 Mar	Akademi Badminton Perak, Ipoh	2nd Runner Up in Women Double
10.	Daisy Tan Netball Carnival 2015	21 Mar	Kallang Netball Centre, Stadium Boulevard, Singapore	Quarter Final
11.	Mizuno UNMC Volleyball Open Tournament 2015	21-22 Mar	University of Nottingham Malaysia Campus, Semenyih, Selangor	Quarter Final
12.	Pangkor Coral Bay Run 2015	22 Mar	Pulau Pangkor, Perak	2nd place in Women Category
13.	Save Our Rainforest Race 2015	28 Mar	Hutan Lipur Kuala Woh, Tapah, Perak	2nd place
14.	UTP 9'S Triangular Hockey Tournament 2015	29 Mar	KTMB Academy Hockey Field, Batu Gajah	Champion
15.	Kejohanan Liga Bola Jaring IPT – Division 2	1-5 Apr	Universiti Malaya (UM), Kuala Lumpur	2nd Runner Up
16.	UNMC Taekwando Open Invitational Championship 2015	3-5 Apr	UNMC Sport Complex, Semenyih, Selangor	3 Gold, 4 Silver & 1 Bronze
17.	Kejohanan Bola Tampar Terbuka Gaggil VC Tawau 2015	3-5 Apr	Kompleks Sukan Tawau, Tawau, Sabah	Quarter Final
18.	Kejohanan Bola Sepak Masiswa Zon Utara 2015	10-12 Apr	UTP Sport Complex	1st Runner Up
19.	Kapas-Marang International Swimmathon 2015	11-12 Apr	Pulau Kapas, Terengganu	4th Place

No.	EVENT	DATE	VENUE	ACHIEVEMENT
20.	Malaysia Breakfast Day Run	12 Apr	Taman Rekreasi Sultan Abdul Aziz Ipoh	2nd place in women's category
21.	UNIKL MIMET Netball Open 2015	18 Apr	UniKL MIMET, Lumut	Champion
22.	Kejohanan Ragbi Perak 15'S Liga Premier 2015	19 Apr-23 May	Padang Ipoh, Ipoh	Runner Up and Promoted to Super League Next Year
23.	Kejohanan 3 On 3 Bola Jaring IPT 2015	25-26 Apr	Universiti Malaya (UM), Kuala Lumpur	1st Runner Up
24.	Kejohanan Silat Waja Diri 2015	25 Apr	Dewan MSN Kampung Baru, Kuala Lumpur	8 Gold, 6 Silver & 11 Bronze –Overall Champion
25.	Singapore Open Challenge Race	7-10 May	Singapore	2nd Runner Up
26.	Kejohanan Futsal IPT Piala Menteri Pendidikan 2015	21-24 May	Universiti Malaysia Sarawak, Kota Samarahan	2nd Runner Up
27.	WB Riverfest Kayak 2015	29-30 May	Pasir Salak Eco Resort, Kg. Gajah, Perak	4th Place
28.	Rugby Phuket 10S 2015	29-31 May	Phuket, Thailand	Runner Up –Shield Category
29.	Penang Judo Championship 2015	31 May	YMCA Hall Penang	1 Gold & 2 Silvers
30.	UTP Netball Open (Netto)	6 Jun	UTP Sport Complex	2nd Runner Up
31.	Sasti Run 2015	6 Jun	Teluk Intan, Perak	1st, 2nd& 3rd in Men's category and 2nd in Women's category
32.	Battle Of Men's Volleyball Championship 2015	6-7 Jun	Dewan Tertutup MBSA Shah Alam	Quarter Final
33.	Kejohanan Ping Pong IPT 2015	9-13 Jun	Dewan Seri Sarjana, Uniten Kampus Putrajaya	2nd Runner Up in Women Single Category
34.	Kejohanan Seni Pertahanan Diri 2015 5 X 5 Berkumpulan	13-14 Jun	Jabatan Belia dan Sukan Negeri Perak, Ipoh	3 Gold, 3 Silver, 2 Bronze
35.	We Run Lumut 2015	14 Jun	Lumut, Perak	1st place in Women's category
36.	Pacemakers Anniversary Relay Series Run 2015	28 Jun & 12 Jul	Lake Garden, Kuala Lumpur	9th & 13th places
37.	Kejohanan Futsal Ramadhan 2015	11 Jul	Dynamic Futsal, Bota, Perak	2nd Runner Up
38.	Kejohanan Bola Tampar Bawah 20 Tahun Perak 2015	25-26 Jul	Kompleks Sukan, Pusat Komuniti Bercham, Ipoh	Champion
39.	World Taekwondo Hanmadang 2015	27 Jul-2 Aug	South Korea	1 Bronze
40.	Kejohanan Sukan Masiswa Zon Utara 2015	31 Jul-2 Aug	Universiti Tunku Abdul Rahman (UTAR), Kampar, Perak	Overall Champion - 7 Gold, 6 Silver & 3 Bronze

No.	EVENT	DATE	VENUE	ACHIEVEMENT
41.	Perak T20 Q National Champion League	1 Aug-13 Sept	Padang Ipoh & Padang Kilat, Ipoh	1st Runner Up
42.	Kejohanan Olahraga Masiswa 2015	5-8 Aug	Stadium Sains Sukan, Universiti Malaya, Kuala Lumpur	2 Gold, 2 Silver & 6 Bronze
43.	The International Clubs Open Taekwondo Championship (ICTO) 2015	5-8 Aug	Tân Bình Stadium, Ho Chi Minh City, Vietnam	1 Gold
44.	Kejohanan Taekwondo (WTF) Tertutup Perak Ke 34	7-9 Aug	JBS Negeri Perak, Ipoh	4 Gold, 3 Silver & 4 Bronze
45.	International Student Sports Carnival (ISSC) 2015	15-16 Aug	Presint 5, Putrajaya	Overall Champion
46.	Judo ATM Open	22-23 Aug	Stadium Tertutup, Pengkalan TLDM, Lumut	1 Bronze
47.	Ragbi 7S UiTM Perak	29-30 Aug	UiTM Seri Iskandar	2nd Runner Up
48.	Kejohanan Bola Jaring Merdeka Terbuka Perak	29-30 Aug	Dewan Majlis Perbandaran Manjung, Perak	Quarter Final
49.	Kejohanan Bola Jaring Festival Rakyat Pasir Salak 2015	5 Sept	SMK Dato' Seri Maharaja Lela, Pasir Salak, Perak	2nd Runner Up
50.	Bali Beach Run	6 Sept	Kuta Beach, Bali, Indonesia	2nd place in women category & 4th place in men category
51.	Bola Tampar Terbuka Taiping	12-13 Sept	SRJK (C) Aulong, Taiping, Perak	Quarter Final
52.	Kejohanan Ping Pong IPT 2015 Circuit 2	1-5 Oct	UTeM Melaka	Fourth Placing (Team) & 4thplace in Women Single
53.	3rd UTP Badminton DVC SAA Cup	9-11 Oct	Sport @ Grand Kampar	2nd Runner Up in Men's Single Category & 2nd Runner Up in Mixed Double Open Category
54.	2nd UTP Volleyball Superleague	9-11 Oct	Sport @ Grand Kampar	1st Runner Up
55.	3rd UTP DVC SAA Futsal Challenge Trophy	10-11 Oct	Sport @ Grand Kampar	Champion
56.	Masiswa Taekwondo Championship	31 Oct-1 Nov	Kompleks Sukan TARUC, Kuala Lumpur	1 Gold, 3 Silver & 6 Bronze
57.	3rd UTP Team Chess Competition	31 Oct-1 Nov	Main Hall UTP	2nd Runner Up
58.	Masiswa-UTP Netball Tournament 2015	10 Oct	Sport @ Grand Kampar	Champion

No.	EVENT	DATE	VENUE	ACHIEVEMENT
59.	Majlis Anugerah Sukan Masiswa 2014	29 May	Bangi-Putrajaya Hotel	3 awards: Best Male Sports Team – UTP Rugby Team, Best Female Sports Team – UTP Netball Team Most Promosing Team (Male) – UTP Volleyball Team
60.	Kejohanan Ragbi Super 8 IPT 2015	13-15 Nov & 20-22 Nov	UPM Serdang	Runner Up in Plate Category
61.	Tyro Ultimate Frisbee	3-11 Oct	Bukit Kinrara, Kuala Lumpur	3rd Runner Up
62.	National Inter-Club T20 Cricket	3-11 Oct	Bukit Kinrara, Kuala Lumpur	3rd Runner Up
63.	GMI Bola Jaring Terbuka Amal	3 Oct	Sports Complex, GMI, Bangi	1st Runner Up
64	Kejohanan Ragbi Masiswa-UTP 2015	4-6 Dec	UTP Sports Complex	2nd Runner Up

Triumphing Over the Odds

Irene Lock Siew Mei shares her courageous battle with illness, emerging to not only overcome the odds but to also excel as UTP's top graduate for the year.

This year's Gold Chancellor Award Winner has an inspiring story to tell.

Irene Lock Siew Mei, who was also presented with the Vice Chancellor's Award not only emerged victorious academically, but more importantly triumphed over a debilitating illness.

On the verge of sitting for her final exams in the first year of her undergraduate programme, Irene was diagnosed with cancer and thus began her battle with leukaemia.

Having to defer her studies, her days were filled with intensive treatments, chemotherapy, medical procedures, never-ending tests and the whole gamut of consequences that comes with this particular fight.

However, instead of allowing the illness to overcome her physically, mentally and emotionally, Irene took the positive road and created her own silver lining in the clouds. She fought the good fight, kept her spirits up and continued to dream of finishing her degree in Chemical Engineering.

After two years, she defeated her disease and returned to her studies at UTP, excelling in all areas to become our top graduate this year.

In addition to the 2015 Gold Chancellor Award and the Vice Chancellor's Award, Irene also received commendation for the best final year project and won a silver award for her department's plant design project.

With the help of her twin, Serene, who had earlier graduated with a corresponding degree from the University of Toronto, Irene finished at the top of her class with a 3.98 CGPA.

This spunky and inspirational lady also participated in numerous competitions and research exhibitions, bagging three gold and three silver medals at international events, among others.

With her illness in full remission, Irene leaves UTP armed with courage, tenacity, a fighting spirit and a positive outlook. She now works at PETRONAS as a Process Engineer.

Well done Irene!

The Colours of The World on One Stage

UTP students come together as one community to support and raise funds for Yayasan UTP.

UTP students come together as one community to support and raise funds for Yayasan UTP.

Music, song, and dance from all cultures of Malaysia - as well as other parts of the world - was the essence of the Tapestry of Colours 2015 concert held at the Dewan Filharmonik PETRONAS.

This year's concert featured UTP's multinational and multitalented engineering and technology students consisting of UTP PETRA, UTP Performing Arts, UTP Gamelan, UTP Virtuoso, UTP Chinese Orchestra, UTP Bhangra and UTP International Students Cultural Groups.

They showcased Malaysia's colourful and diverse cultural heritage through traditional and contemporary song and dances performances. There were also traditonal dance from Yemen, Mozambique and Pakistan, among others.

Local award winning artiste Siti Saleha also made an appearance at this concert.

The event successfully raised RM1.4 million. The biggest contribution came from Technip who donated RM1 million to fund the YUTP Scholarship Fund for three years from 2015-2018.

Learning through campus activities... UTP students are actively involved in various activities throughout the year. Some of the recent activities are presented herewith.

1. Fighting hard to prove his point at the Environmental Debate
2. A forum during iFest with invited guest
3. Puzzle solving during Registry Open Day
4. Breaking the code at UTP-HAX Competition
5. Impressed judges listen attentively to the Environmental Debaters
6. Giving back to society by donating blood in conjunction with Registry Open Day
7. Qasidah praising Prophet Muhammad (PBUH) led by Kumpulan Qasidah Nur Ahli Badar.
8. Drawing to de-stress at Registry Open Day
9. Challenging code at UTP-HAX National Hacking Competition

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Industries giving an insight of career outlook in the industry and job opportunities available besides identifying the talented and qualified candidates for internship programmes.

1. Mr Arvind Sidhu, Talent Acquisition and Employer Branding Lead for Schneider Electric Malaysia.

2. Wong Kum Seng, Technical Manager, Drilling & Evaluation, SEA Project Business Development, Baker Hughes

3. Fiona Yung, Leadership Programs Manager of GE Singapore

4. Amrael Nurman Abd Rahim, Service Delivery Manager, Schlumberger

5. Student Engagement Programme with F1 Star Nico Rosberg MERCEDES AMG PETRONAS Formula One Team

6. Industrial Visit to GE Aviation

7. Lokman Hakimi Jusoh, Recruiting Manager, Schlumberger

8. Candidates Attending Interview Session for Continental Corporation

9. Steve Johnston, Regional Development Advisor (Wells) Asia Pacific

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