Concept Rationale

Towards
Distinctive
Reputation

The cover for the University’s Annual Report 2013 features gold and bold stripes. The gold and bold stripes signify the distinctiveness of the University’s reputation.

Building a reputation is driven by having discerning insights and vision and seeing them through with integrity. And the University’s performance in 2013 had testified exactly that.
Corporate Profile

- Vision, Mission and University Profile
- Logo Rationale
Vision, Mission and University Profile

Vision
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 nations 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.

University Profile
UTP which was established in 1997, has grown to be one of the most prominent private universities in Malaysia. Offering a wide range of industry-relevant engineering and technology programmes at undergraduate and postgraduate levels, UTP has produced more than 10,500 graduates and currently has an enrolment of 5,800 undergraduates and 1,500 postgraduates from over 50 countries around the world. UTP complements its engineering and technology programmes with quality education in the areas of management and the humanities, with the aim of producing well-rounded graduates exhibiting excellent leadership qualities and communication abilities.

Rated as Tier 5 (Excellent) University for the year 2011 Rating System for the Malaysian Higher Education Institutions (SETARA ’11) and achieved the Tier 5 for 2011 D-SETARA (Discipline-Based Rating System) in engineering, UTP continues to provide distinctive educational opportunities to its students.

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 Enhanced Oil Recovery, Carbon Dioxide Management, Deepwater Technology, Nanotechnology, Green Technology, Biomedical Technology, Hybrid Energy Systems, Intelligent City and Sustainable Resources. This is evident when UTP was awarded a 5-star excellent rating by Malaysian Research Assessment Instrument (MyRA) for its research, development and commercialisation efforts recently.
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
• Industry Advisory Panel
• International External Examiners
• Research Advisory Council
• Student Development Advisory Council
Chancellor

Tun Dr Mahathir bin Mohamad
Born on 20 December 1925 in Kampung Seberang Perak, Alor Setar, Tun Dr Mahathir bin Mohamad started school at Sekolah Melayu Seberang Perak in 1930. He was there for two years, before continuing his education at the Government English School (now known as the Sultan Abdul Hamid College) in Alor Setar. During the Japanese Occupation from 1941 to 1945, he stopped school. After the Japanese surrender, Tun Mahathir resumed his education and received the Senior Cambridge Certificate the same year.

Upon completing his secondary education in 1947, Tun Mahathir received a partial scholarship from the Government to study medicine at the King Edward VII Medical College – the forerunner of the University of Malaya – in Singapore. In 1953, Tun received his MBBS degree from the University of Malaya and immediately began housemanship in Penang. From 1954 to 1957, Tun served the Government as Medical Officer in Alor Setar, Langkawi and Perlis. In June 1957, Tun went into private practice. Later that year, he opened his own MAHA Clinic in Jalan Tunku Ibrahim, Alor Setar – the first Bumiputera private clinic in the state.

Tun’s political involvement began in 1945, when he joined various organisations like Kesatuan Melayu Kedah, Seberkas and Kesatuan Pemuda Melayu Kedah. Whilst still at school, he was also actively involved in the anti-Malayan Union campaign. In 1946 he became a member of the United Malays National Organisation (UMNO). In 1964, Tun contested in the General Elections, won the Kota Setar Selatan constituency and became a Member of Parliament. It was when he became the Chairman of Food Industries of Malaysia (FIMA) in 1973 that he honed his administrative capabilities.

In 1974, Tun was appointed Minister of Education in Tun Razak’s cabinet. In March 1976, Tun was named Deputy Prime Minister by Tun Hussein Onn. On 16 July 1981, Mahathir became the fourth Prime Minister of Malaysia, a position he held for 22 years. He retired on 31 October 2003.

Under the stewardship of Tun, Malaysia has witnessed unprecedented economic growth especially in manufacturing, infrastructure, information technology and oil and gas.

In recognition of his outstanding contributions to nation building, Tun received numerous prestigious fellowships, awards and honours from universities and academic institutions, both locally and internationally. Honorary Member, Academy of Medicine (1983); Honorary Member, Malaysian Medical Association (1984); Honorary Fellowship of the Royal College of Surgeons, Ireland (1991); Honorary Fellowship, Academy of Sciences Malaysia (1996); Honorary Fellowship, Royal College of Physicians of Edinburgh (1997); Honorary Professor, Kyrgyz University (1996); Honorary Doctorate in Humanities, National University of Mongolia (1997); and Honorary Doctorate of Literature and Al-Azhar University (1998), to name a few.

In 2001, in recognition of his dedication to promoting human resource development in Malaysia through educational and technological exchange with global perspective, Tun was awarded the Honorary Doctorate by Meiji University, one of the most prestigious universities in Japan. After his retirement, he continued to receive various honours. These include an Honorary Doctorate in the field of management and engineering from Universiti Teknologi Malaysia (2003), and the Honorary Degree of the Doctor of Letters, Universiti Islam Antarabangsa (2003) for his distinguished contributions as a Muslim writer and an outstanding intellectual.
Pro Chancellor

Tan Sri Sidek Hassan

Tan Sri Sidek Hassan is the Chairman of Petronas Nasional Berhad (PETRONAS), the National Oil & Gas company of Malaysia. He assumed the position in July 2012 pursuant to his appointment as an Independent, Non-Executive Member of the Board.

Prior to joining PETRONAS, Tan Sri Sidek served in the Administrative and Diplomatic Services of the Malaysian Civil Service for 38 years, the last six of which as the 12th 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.

He also served a four-year stint at the Implementation Coordination Unit (ICU) of the Prime Minister’s Department, where he was Deputy Director at the Unit’s Project Analysis Sector and subsequently appointed Deputy Director of Research.

Tan Sri Sidek holds a Masters of Business Administration (MBA) from the New Hampshire College, United States and a Bachelor of Economics (Honours) degree in Public Administration from Universiti Malaya. He also holds an Honorary Doctorate in Public Administration from Universiti Tun Abdul Razak and Honorary Doctorates in Management from Universiti Putra Malaysia and Universiti Teknikal Malaysia Melaka.
Tan Sri Dato’ Shamsul Azhar Abbas is the President and Group Chief Executive of PETRONAS since 10 February 2010. Throughout his career with the company beginning 1975, he has held numerous senior management positions across business divisions, including Logistics and Maritime, Exploration and Production, Oil, as well as Petrochemical. Tan Sri Dato’ Shamsul Azhar holds a Masters of Science (MSc) in Energy Management from the University of Pennsylvania, a Bachelor’s degree in Political Science and Economics from Universiti Sains Malaysia as well as a Technical Diploma in Petroleum Economics from the Paris-based Institut Français du Pétrole.

He has been conferred with several awards by the federal as well as state governments of Malaysia, which include the Darjah Panglima Setia Mahkota (PSM), the second-highest award of the Malaysian Federal Government. Beyond the Malaysian borders, he was conferred the Dato Paduka Seri Laila Jasa Yang Amat Berjasa Darjah Kedua by the Sultan of Brunei, and is also a recipient of the Officier de la Légion d’Honneur from the Government of the French Republic.
Datuk Ir (Dr) Abdul Rahim Hashim was a graduate in Electronics and Electrical Engineering in 1976 and a recipient of an Honorary Doctorate in Engineering from the University of Birmingham, UK in 2006. As a professional engineer, Datuk was previously on the Board of Engineers Malaysia (BEM) and had served for five years, since 2007, as the Chairman of the Engineering Accreditation Council (EAC) Malaysia.

Datuk Abdul Rahim has been attached with PETRONAS for more than 32 years and held a number of high profile positions. He first reported duty with PETRONAS in 1976 with his last position as the Vice President of Research and Technology Division, from 2006 to 2008.


Datuk Abdul Rahim is also holding a position as Chairman in various PETRONAS’ subsidiaries and associated companies such as PETRONAS NGV Sdn Bhd, OGP Technical Services Sdn Bhd, Gas District Cooling (M) Sdn Bhd including Gas District Cooling (UTP) Sdn Bhd, Gas Malaysia Audit Board Committee, ASEAN LNG Trading Company Ltd, PETRONAS Egypt Corporation Ltd (PICL), PETRONAS Gas Berhad (PETGAS) (UK) Ltd, PETRONAS Argentina S.A, Trans-Thai-Malaysia Ltd, PT. Transportasi Gas Indonesia and Egyptian LNG Co. S.A.E.
Datuk Abdul Rahim is currently the Immediate Past President of the Malaysian Gas Association, President of Asia-Pacific Natural Gas Vehicle Association and Immediate Past-President of the International Gas Union for the triennium 2012 to 2015. He is also an associate member of the American Institute of Chemical Engineers, a Commissioner of the Energy Commission and a member of the National Science & Research Council.

Throughout his career with PETRONAS, Datuk Abdul Rahim has shown tremendous industry leadership and incredible innovativeness resulting in many great achievements. He has successfully implemented, amongst others, the first PETRONAS’ Voluntary Separation Scheme (VSS), introduced the Human Resource dual career approach for staff, the development of INSTEP which involves restructuring of facilities and curriculum and PETRONAS Second Refinery in Malacca consisting of 100,000 BPSD (Barrel per Stream Day) hydroskimming refinery.

Datuk Abdul Rahim was bestowed with Pingat Jasa Kebaktian (PJK) from the Sultan of Terengganu in 1990 and Pingat Panglima Jasa Negara (PJN) from the government of Malaysia in June 2004.
Board of Directors
Chairman
1. Juniwiati Rahmat Hussin
   (until 30 November 2013)
2. Raiha Azni Abdul Rahman
   (from 1 December 2013)
   Member (until 30 November 2013)

Members
3. Datuk Anuar Ahmad
4. Datuk Wan Zulkiflee Wan Ariffin
5. Dato’ Wee Yiaw Hin
6. Datuk George Ratilal
7. Datuk Ir (Dr) Abdul Rahim Hashim

Company Secretary
8. Ahmad Nabil Azizan
   (until 31 May 2013)
9. Halimatun Saadiah Abdul Halim
   (from 1 June 2013)
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 Baharum
   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 Ir Dr Muhd Fadhil Nuruddin
   Dean, Faculty of Engineering (until 30 June 2013)

8. Assoc Prof Dr Mohamed Ibrahim Abdul Mutalib
   Dean, Faculty of Engineering (from 1 July 2013)

9. Prof Dr Manuel Pubellier
   Dean, Faculty of Geosciences & Petroleum Engineering

10. Prof Dr Noorhana Yahya
    Dean, Faculty of Science & Information Technology (until 30 June 2013)

11. Assoc Prof Dr Ahmad Kamil Mahmood
    Dean, Faculty of Science & Information Technology (from 1 July 2013)

12. Assoc Prof Dr Mohd Fadzil Hassan
    Dean, Centre for Graduate Studies
13. Assoc Prof Dr Mohamad Azmi Bustam @ Khalil  
Head, Chemical Engineering Department

14. Assoc Prof Dr Rosdiazli Ibrahim  
Head, Electrical & Electronics Engineering Department

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

16. Assoc Prof Ir Dr Mohd Shahir Liew  
Head, Civil Engineering Department

17. Assoc Prof Dr A Hadi A Rahman  
Head, Geoscience Department

18. Assoc Prof Dr Ismail Mohd Saaid  
Head, Petroleum Engineering Department

19. Dr Jafreezal Jaafar  
Head, Computer and Information Sciences Department

20. Assoc Prof Dr Azrai Abdullah  
Head, Management and Humanities Department

21. Assoc Prof Dr Balbir Singh Mahinder Singh  
Head, Fundamental and Applied Sciences Department

22. Assoc Prof Ir Dr Idris Ismail  
Head, Centre for Student Internship, Mobility and Adjunct Lectureship

Secretary

23. Solihuddin Ahmad Nasarudin  
Registrar
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

**Members**
Datuk Ir (Dr) Hj Ahmad Zaidee Laidin
Vice President
Academy of Science Malaysia

Tan Sri Zarinah Anwar
Former Chairman
Securities Commission 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

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, 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

Juniwati Rahmat Hussin
Vice President and Venture Director
Pengerang Integrated Complex, Johor

Raiha Azni Abd Rahman
Vice President
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
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**

**Ir Johan Alimin Abdul Samad**  
Project Manager  
Intecsea Sdn Bhd

**Kamarul Ariffin Tajul A’mar**  
Head of Centralised Services Division  
PETRONAS Chemicals Group Berhad

**Datuk Nur Iskandar Abdul Samad**  
Venture Lead  
Refinery and Petrochemical Integrated Development (RAPID)

**Ir Ong Thean Guan**  
Safety Engineering Manager/  
Senior Department Manager  
Technip Geoproduction (M) Sdn Bhd

**Ir Dr Lim Char Ching**  
Senior Principal Assistant Director  
Public Works Department of Malaysia

**Azam Abdul Rahman**  
Principal Engineer (Civil Structural)  
PETRONAS Carigali Sdn Bhd

**Muhammad Akhir Othman**  
Managing Director  
HYDEC Engineering Sdn Bhd

**Electrical & Electronic Engineering**

**Dr Ir Ahmad Jaafar Abd Hamid**  
Chief Engineer  
Tenaga Nasional Berhad

**Dr Hon Hock Woon**  
Principal Researcher  
MIMOS Berhad

**Saifol Mualim Ahmad Yahaya**  
General Manager  
Group Technology Solutions  
PETRONAS

**Civil Engineering**

**Ir Dr Ch’ng Guan Bee**  
Director  
IKRAM Centre of Excellence for Engineering Forensic and Consultancy

**Dato’ Sri Ir Dr Judin Abdul Karim**  
Chief Executive  
Construction Industry Development Board (CIDB)
Dr Shahrul Yazid Yahaya  
Head of Department  
Intel Microelectronics (M) Sdn Bhd

Dr Mazlan B Abbas  
Chief Research Director  
Wireless Applied Research  
MIMOS Berhad

Mechanical Engineering
Ir Ahmad Khairiri Abdul Ghani  
Staff Engineer  
PETRONAS Carigali Sdn Bhd

Azmi B Mahamad  
Chief Operating Officer  
UZMA Berhad

Dr John Fuad Edwards  
Integrity Lead Specialist  
Llyod’s Register Technical Services  
Sdn Bhd

Ir Dzulaidin Tasrin Othman  
Head of Department  
Sapura Kencana Best Wide Sdn Bhd

Ir Ismady Hj Ismail  
Head of Unit  
TNB Repair & Maintenance Sdn Bhd

Petroleum Engineering
Erwin Ariyanto  
Training Advisor/Team Leader  
Scomi Oiltools Sdn Bhd

Dr Lim Lay Tiong  
Senior Production Engineer  
SPT Group (A Schlumberger Company)

Julmar Shaun S. Toralde  
Region Engineering Manager – Asia Pacific, Well Construction  
Weatherford (Malaysia) 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 B Madon  
Custodian (Basin Analysis)  
Exploration & Production Technology Centre, PETRONAS

Jasmee Zainal Rashid  
Country Manager/Managing Director  
Petroleum Geo-Services

Management & Humanities
Emeritus Prof Datuk Dr Osman Bakar  
Deputy Chief Executive Officer  
International Institute of Advanced Islamic Studies Malaysia

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

William Chau Wei Loong  
General Manager  
Applied Technology and Innovation  
Mesiniaga Bhd

Ritakamal Sadiman  
Chief Executive Officer  
E2B Consulting Sdn Bhd

Ainuddin Jantan  
General Manager  
Corporate ICT Development Unit  
PETRONAS

Dr Amirudin Abdul Wahab  
Under Secretary  
ICT Policy Division  
Ministry of Science, Technology and Innovation (MOSTI)
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, International External Examiners conference 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 conference provides invaluable input that will 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 Peter L Douglas*
Associate Dean of Engineering (Computing)
University of Waterloo, United Arab Emirates

**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**

*Prof 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 Dept/
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 Dr Kathryn N Kearins
Professor of Management
Auckland University of Technology
New Zealand
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 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 Hashim
Vice Chancellor & Managing Director/CEO
Universiti Teknologi PETRONAS

Members

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

Ir Elias Ismail
Senior General Manager, Technology & Innovation Development Sector
Construction Industry Development Board (CIDB)

Ir Ahmad Fauzi Hasan
Chief Executive Officer
Energy Commission Malaysia

Hj Faizoull Ahmad
Director General
Federal Land Development Authority (FELDA)

Dr Ir Cheong Kam Hoong
Managing Director
TNB Research Sdn Bhd

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

Prof Dr Halimaton Hamdan
Under Secretary, National Nanotechnology Directorate
Ministry of Science, Technology & Innovation, Malaysia (MOSTI)

Prof Dr Ku Ruhana Ku Mahamud
Graduate Department of Computer Science
College of Arts and Sciences
Universiti Utara Malaysia

Chuah Beng Swee
Head, Lab Management
PETRONAS Research Sdn Bhd

Dr Nasir Hj Darman
Head of Enhanced Oil Recovery (EOR)
Exploration & Production Technology Centre
PETRONAS
Ahmad Nawawi Mohd Yatim
General Manager
Technical and Facilities Development Division
PETRONAS Gas Berhad, Malaysia

Dato’ Mash’al Bin Ahmad
Managing Director
Lynas Malaysia Sdn Bhd, Malaysia

Azhar Abdullah
Vice President, Testing Services
Schlumberger Asia
Schlumberger WTA (M) Sdn Bhd

Chu Jenn Weng
President/Chief Executive Officer
Vitrox Corporation, Malaysia

Rao Abdullah
Vice President – Central Asia
Halliburton Energy Services (M) Sdn Bhd

Prof Saeed M Al-Zahrani
Executive Director of SABIC Polymer Research Center
College of Engineering, King Saud University, Kingdom of Saudi Arabia

Dr Ioannis Economou
Associate Provost for Graduate Studies
Professor of Chemical Engineering
The Petroleum Institute, Abu Dhabi
United Arab Emirates

Dr Ong See Hong
Regional Technical Advisor – Asia Pacific Reservoir Development Services (RDS)
Baker Hughes Inc., Australia

In Attendance

Prof Dr Richard Paul Major
UTP Shell Chair

Prof Dr Mustafa Onur
UTP Schlumberger Chair

Prof Dr Yoshimitsu Uemura
UTP Mitsubishi Chair

Dr Allan Magee
UTP Technip Chair

Dr Aamir Saeed Malik
UTP MOR Director – Biomedical Technology

Prof Dr Norani Muti Mohamed
UTP MOR Director – Nanotechnology

Assoc Prof Dr Suzana Yusup
UTP MOR Director – Green Technology

Assoc Prof Fakhirudin M Hashim
UTP MOR Director – Deepwater Technology

Prof Dr Azmi Mohd Shariff
UTP MOR Director – CO₂ Management

Prof Dr Mariyamni Awang
UTP MOR Director – Enhanced Oil Recovery

Assoc Prof Ir Dr Shaharin Anwar Sulaiman
UTP MOR Director – Hybrid Energy System

Prof Khairun Azizi Azizli
UTP MOR Director – Sustainable Resources

Assoc Prof Dr Halabi Hasbullah
UTP MOR Director – Intelligent City

Secretary

Hj Mohd Azminuddin Afandi
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
Director General
Public Service Department
(Vice President, Persatuan Kaunseling Malaysia)

Jamal A Ainul
Chairman,
Schlumberger Group of Companies, Asia
Schlumberger WTA Malaysia Sdn Bhd

Dato’ Dr Adnan Alias
Chief Executive Officer
The Islamic Banking & Finance Institute Malaysia (IBFIM)
(Chairman, Education Malaysia Global Services)

Mohd Suhaimi Baharudin
Director & Senior Vice President
Technip, Malaysia

Datin Norela Nuruddin
Country Director
ENACTUS Malaysia Foundation

Ng Wan Peng
Chief Operating Officer
Multimedia Development Corporation

Wong Siew Hong
R&D Engineering Head
Agilent Technologies Malaysia

Datuk Chin Leng Sim @ Marina Chin
Principal
Bukit Jalil Sports School

Datuk Nur Iskandar Abdul Samad
Venture Lead
Refinery and Petrochemical Integrated Development (RAPID)

Tan Sri A K Nathan
Executive Chairman
EVERSENDAI Corporation

Secretary

Mohamed Noor Rosli Baharom
Deputy Vice Chancellor,
Student Affairs and Alumni
Universiti Teknologi PETRONAS
The Report

- Chairman’s Review
- Vice Chancellor’s Report
Chairman’s Review
Universiti Teknologi PETRONAS (UTP) and PETRONAS’ past, present and future have always been inextricably interwoven and intertwined, like the delicate silver and golden threads intricately patterned in a traditional Malay ‘Songket’. As in a songket, the beauty of it can only be told by the delicate and laborious weaving of the threads, telling a sublime tale enriched with art, passion, tradition and identity. So too is the story of UTP and PETRONAS.

PETRONAS came into being in 1974 and twenty three years later on 10 January 1997, to be precise, UTP was born, and like the beauty and uniqueness of a Songket that never fails to impress every time it is worn, so too the sublime achievements of both organisations continue to be outstanding. The success of one complements the other, “ibarat irama dan lagu, takkan mungkin dapat dipisahkan.” Each organisation’s successes in their respective fields lay the foundation for the success of the other as both PETRONAS and UTP share the uniqueness of being keepers of Malaysia’s most precious resources; petroleum and the young leaders of Malaysia.

From its ‘birth’ PETRONAS’ varied business operations in oil and gas value chains – from exploration, extraction, production, refining to trading and marketing requires it to have multiple-pronged approaches in building the learning and capabilities of its people, so as to meet the demands and challenges in its business and operations. Ranked 75 among the world’s largest corporations in 2012 with a revenue of $94.3 billion, PETRONAS was the 19th most profitable firm with net proceeds of $16 billion according to the 2013 Fortune Global 500 survey. The same survey places PETRONAS as the sixth most profitable company of 2012 after Exxon Mobil Corporation, OAO Gazprom, Royal Dutch Shell plc., Chevron Corporation and China National Petroleum Corporation.

All these accolades and successes however means little if the organisation does not invest in the future and the development of another of Malaysia’s most valuable resource; its people. Throughout the years PETRONAS has put in place a structured learning and capability development framework to sustainably produce capable resources to support its business imperatives. INSTEP, a technical centre to prepare and develop operators and technicians for PETRONAS’ facilities, PERMATA later renamed PETRONAS Leadership Centre (PLC) that offers a wide range of management skills training and an Education Sponsorship Unit to manage scholarships for qualified secondary school students to pursue undergraduate studies in local and international top universities are among PETRONAS’ initiatives. PETRONAS’ passion in developing professional and skilled workforce specifically for oil, gas and related industries led to the invitation to set up a private university by the Ministry of Education, Malaysia. So it was that UTP was set-up in 1997 with the main objective to produce creative and innovative leaders for the industry.

I am proud to note that UTP has grown to be one of the most prominent private universities in Malaysia today. Offering a wide range of industry-relevant engineering and technology programmes at both undergraduate and postgraduate levels.

I am proud to note that UTP has grown to be one of the most prominent private universities in Malaysia today. Offering a wide range of industry-relevant engineering and technology programmes at both undergraduate and postgraduate levels, UTP has to date produced more than 10,000 graduates and currently has an enrolment over 6,000 undergraduates and 1,200
postgraduates from more than 50 countries from around the world. Among the achievements UTP has chalked includes being rated as a Tier 5 (Excellent) University for the year 2011 Rating System for the Malaysian Higher Education Institutions (SETARA ’11) and being accorded a Tier 5 for 2011 D-SETARA (Discipline-Based Rating System) in engineering. UTP was also rated 3-Star for Excellence in the Quacquarelli Symonds (QS) World University rating for 2013, and listed among the Top 200 Universities under the QS World in Chemical Engineering 2013.

UTP’s teaching and capabilities development are indeed comprehensive. UTP-ians are not just expected to be the best in their studies but they are also exposed to co-curricular activities and short courses to develop their soft skill competencies and make them well rounded and holistic individuals. The UTP Performing Arts Group did us proud when they walked away with awards for the Best Costume, Best International Street Parade and the ultimate First Prize for the 10th Cheonan World Dance Festival, held at Cheonan Samgeori Park, Cheonan City, Korea. UTP has also charted successes in many major national sporting events and International Invention competitions too have seen UTP triumph.

The academic faculty members too are expected to continually upgrade themselves and keep abreast of the latest developments and technologies in the industry through UTP’s close engagement with the industry. Under our Research and Development (R&D) Stewardship for example, UTP has two nationally recognised Center of Excellence; the Center of Excellence in Subsurface Seismic Imaging and Hydrocarbon Prediction and Centre of Excellence in Enhanced Oil Recovery which aims to produce exploitable knowledge that can be commercialised to make a difference in the people’s quality of life. We were awarded a 5-star rating by Malaysian Research Assessment Instrument (MyRA) for our research, development and commercialisation efforts, and we are the first private university in Malaysia to achieve such recognition.

The University’s capabilities in research and innovation have quantum leaped in the span of just a few years. UTP now boasts facilities and equipment that could ease industries to find optimised solutions for their issues and concerns. Shared commitment between UTP and its learning partners, the likes of Halliburton, Sapura Kencana, Baker Hughes, Hitachi and several others have resulted in astounding results. These collaborations include knowledge transfer to continuously enhance UTP’s value propositions, capability development through on-the-job-attachment opportunities, research and development, industry attachments and student sponsorships and internships as well as alliances in related projects of domestic and overseas productions.

UTP has also secured commitment from established companies to sponsor Professorial chairs; e.g. the Shell Chair in Petroleum Geoscience, Schlumberger Chair in Petroleum Engineering, Mitsubishi Chair in Green Technology and Technip Geoproduction Chair in Deepwater and Subsea Technology. For 2013, 2 new Professorial Chairs were established: PETRONAS Carigali Professorial Chair in Enhanced Oil Recovery (EOR) and Sapura Kencana Professorial Chair in Integrated Deepwater Construction and Drilling. All these developments bode well not just for the university and its students, but also for PETRONAS and the oil and gas industry at large. As the future workforce, UTP-ians are already poised to take on the challenges and chances accomplishable to them.
The future for both are indeed intertwined and the future is dawning clear and sunny for both. PETRONAS intends to intensify the capabilities of its workforce in frontier technologies such as Floating LNG, Shale Gas and Coal Bed Methane among others. UTP-iains will have the opportunity to not only be pioneers in these new technologies but also leaders in the field. To do that UTP has to be ready to respond speedily and efficiently not only to PETRONAS’ new developments and ventures but also to what other premier organisations in the industry is venturing into. UTP has to be robust enough to calibrate with the evolution of the industry requirements.

For UTP, there are three important levers identified to meet the industry’s demands in 2014; namely Academic Positioning, R&D Stewardship and Industry Engagement. Academic Positioning focuses on ensuring that UTP has an accomplished teaching faculty, world class learning facilities and industry and government’s recognition. For R&D Stewardship, it is critical for UTP to continue to have a close interaction with the industry to ensure relevance of research, clear research themes as well as excellent research test bedding facilities and strong commercialisation support. Finally industry engagement will look at UTP establishing effective synergy between academia and industry for mutual benefits and gains. These three levers will form the bedrock for UTP to take another quantum leap into the future, by continuing to develop and produce cutting-edge, highly capable, multi-talented and holistic UTP-iains; ready to take on the industry’s challenges and chances.

I have no doubt that UTP and PETRONAS will continue to forge and discover new frontiers in the year ahead, claiming many more accolades and awards, Insha’Allah. Like the creation of the songket which is believed to cultivate virtues of diligence and patience, each thread of color weaves a philosophical tale of life and is worn proudly during life’s most important moments. PETRONAS is the gold complimenting the silver threads of UTP, and together we will weave a legacy to be remembered.

On behalf of the Board, I would like to record my sincerest appreciation to YABhg Tun Dr Mahathir bin Mohamad, the University’s Chancellor, Pro Chancellors YBhg Tan Sri Sidek Hassan and YBhg Tan Sri Dato’ Shamsul Azhar Abbas, and the distinguished members of the Academic Advisory Council for their support, guidance and counsel. My heartfelt gratitude also goes to the PETRONAS and ITPSB Board for making this year productive and successful.

I am grateful for the opportunities I have been given to work with and grow with UTP over the years. Your successes and achievements have been a source of unbridled pride for me, and you will always remain close in my heart. To my beloved UTP-iains, allow me to leave you with these parting words, from author Paulo Coelho; “Be brave. Take risks. Nothing can substitute experience.”

Thank you.

Warm regards,

Juniwati Rahmat Hussin
Chairman
Vice Chancellor’s Report
A Distinctive Reputation

Universiti Teknologi PETRONAS’ discerning vision of being a leader in technology education and centre for creativity and innovation is supported by its judicious mission statements that being an institute of higher learning, the University provides opportunities for the pursuit of knowledge and expertise for the advancement of engineering, science and technology to enhance the nation’s competitiveness. It has the specific objective to produce well-rounded graduates who are creative and innovative with the potential to become leaders of industry and the nation. The University also aims to nurture creativity and innovativeness and expand the frontiers of technology and education for the betterment of society.

In realising the vision and mission, a long-range plan or journey has been designed mindful of several fronts: global challenges, industry outlook, education scenarios and local policies and trends.

Globally, the challenges may appear daunting but not unexpected. Asian financial crisis, sub-prime mortgage crisis, Euro zone crisis, Arab spring and China becoming world’s second largest economy all intimated grave impacts on world economy and politics.

Within the oil, gas and petroleum sector, there are issues and challenges affecting the industry. To name a few, one of the more pressing issues is the access to significant quantities of economically recoverable oil and gas resources. Others include cost of services, talent tussle and innovative technologies acquisition. There are also predictive trends that should not be ignored. Oil and gas companies may need to focus on resiliency within the global energy supply chain. In gaining competitive edge, companies need to concentrate on innovation for sustainability. Since safety will forever more be a major concern for oil and gas companies, safety and accountability will frame relationships between owners and service companies.

Closer at home, the future outlook carries promising insights. According to a report in Economic Transformation Programme, by 2020, Malaysia will have a more diversified oil, gas and energy sector that remains vital to local development, and that builds on the nation’s competitive advantages. The key thrusts would be to intensify exploration and enhance production from domestic reserves and develop a strong regional oilfield services and equipment hub, and a stronger presence in the regional midstream logistics and downstream markets. The industry has abundant potential to grow alternative energy sources such as nuclear, solar and hydro to overcome decline in natural gas production. The National Key Economic Area (NKEA) has identified that oil and gas sector is expected to generate RM131.4 billion in Gross National Income by 2020, (5% annual growth) in the period from 2010 to 2020. Also, there were 12 entry point projects (EPPs) anchoring on four themes sustaining oil and gas production, enhancing growth in downstream, making Malaysia the number one Asian hub for oil field services, especially deepwater and building a sustainable energy platform for growth.

Our challenges are not only critical to us, but to the world as well. A developing country’s ability to achieve economic growth and raise the standard of living greatly depends on its access to affordable, reliable energy – and this is where the University plays the pivotal role.
Since the University’s inception in 1997, programmes, initiatives and activities have been orchestrated meticulously and guided by the vision and mission statements. A long-range plan has been drawn up to chart specific key performance indicators and key milestones. The purpose of the long-range plan or journey is to direct strategic actions that would yield demonstrable outcomes and progress in support of the commitments of realising the vision and mission statements.

Taking into consideration the global challenges, industry outlook, education scenarios and local policies and trends, the University has designed its journey until 2025.

The momentum is fast gaining since Phase 1 where then the focus was on building strong foundation for this newly established institution. The University has surpassed targets and expectations when efforts have begun to manifest commendable results. The University found its footing in SETARA, D-SETARA, MyRA and Asian University Rankings. Such achievements have indeed provided the leverage for the University to solidify its reputation while continuing its journey to be internationally recognised.

The University takes pride in its efforts and initiatives in realising its vision and missions by building deep relationships around the world, with businesses large and small, with industries, with civic society, with governments and NGOs, and with students, researchers and other academic institutions. The faculty, staff and associates convene a critical mass of expertise that spans national borders and crosses the boundaries of academic disciplines. Significantly, they are also designed to speed up the translation of research into practice and commercialisation because, as with much of what the University does, ultimately the benefits have to be apparent, useful and sustainable for the society – local, national and global.
Thus, it is my honour to present the Annual Report of Universiti Teknologi PETRONAS (UTP) for the financial year ended 31 December 2013 summarising challenges and accomplishments in our journey towards becoming a distinctive research and academic institution.

**Performance Review 2013**

This review looks into the University’s performance, challenges and accomplishments in four aspects: academic positioning, R&D stewardship, industry engagement and effectiveness and efficiency.

**Academic Positioning**

From the very outset, the University’s academic positioning has set the highest aspirations and expectations. UTP’s academic positioning is guided by several criteria:

- percentage of international students
- percentage of international faculty
- percentage of professors
- number of new niche taught programmes offered

Though the assessment for SETARA and D-SETARA will only be conducted in 2014, preparation for the assessment is already in place. Programmes that are relevant and important to the oil, gas and petroleum industry were introduced. In September 2013, the University has successfully launched its MBA in Energy Management. Both MSc in Drilling Engineering and MSc in Offshore Engineering programmes have been submitted to Malaysian Qualification Agency (MQA) for approval.

<table>
<thead>
<tr>
<th>Highlight</th>
<th>Objective</th>
<th>Performance Indicator</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔ Assessment for SETARA &amp; D-SETARA will only be conducted in 2014</td>
<td>SETARA and D-SETARA Index</td>
<td>Target</td>
<td>Actual</td>
</tr>
<tr>
<td>✔ MBA in Energy Management (Offered in September 2013)</td>
<td>% of International Students</td>
<td>6/6</td>
<td>n/a</td>
</tr>
<tr>
<td>✔ MSc in Drilling Engineering: (Submitted to MQA for new programme application in Nov 2013)</td>
<td>% of International Faculty</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>✔ MSc in Offshore Engineering: (Submitted to MQA for new programme application in Nov 2013)</td>
<td>% of Professors (Cumulative)</td>
<td>12</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>No of niche taught programmes offered (New)</td>
<td>1</td>
<td>1</td>
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</table>
R&D Stewardship

Cutting-edge researches and innovation should be able to take products and services beyond the lab with commensurate financing, lean manufacturing, and effective and systematic commercialisation. R&D stewardship now includes understanding of labour markets, talent management, operations and finance. The goal of balancing science and business offers new terrain and playing fields for the University’s research teams.

The University’s research teams documented a commendable performance with 90 new patents filed and 9 granted including 8 new products that were commercialised. New areas that entered commercialisation phase exceeded by 7 from the original target of only 1. The efforts and results have surpassed MyRA’s Score Research University (RU) target of 100. The University was awarded with MyRA 5 – Star with a grant worth RM5 milion.

As in previous years, the academic faculty members were active in testing and pitching their research products and services at various national and international competitive ground. A total of 151 gold, 167 silver and 79 bronze medals were won in FY2013 at various expositions. The University has developed a strong research culture which is characterised not just by the quality of the research, but by the relationships among the researchers. There is mutual respect across the majority of the researchers at the University where they genuinely care about the success of their colleagues and seek to elevate and advocate the research of their colleagues. This is further enhanced by the cross-disciplinary researches undertaken at various Mission Oriented Researches (MORs) and Centres of Excellence (CoEs).

And it was through such concerted effort that the University became the first private university to be accredited with the Universal Testing Machine Laboratory by STANDARDS Malaysia.

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<tr>
<td>✔ The RU site visit was conducted at UTP on 18-19 Nov 2013</td>
</tr>
<tr>
<td>✔ 90 new patents filed, 9 granted including 8 new commercialized:—</td>
</tr>
<tr>
<td>- Mobile Hajj-G (AP Dr Wan Fatimah, et all)</td>
</tr>
<tr>
<td>- Conversion of waste polyethylene, polyethylene terephthalate and lignocellulose mixtures to syngas using catalytic steam gasification process (AP Dr Suzana bt Yusup)</td>
</tr>
<tr>
<td>- ALAM 3.0 and ALAM MINI-Portable Generator (Prof Dr Abdul Rashid b Abd Aziz)</td>
</tr>
<tr>
<td>- Hollow Fiber Membrane Prediction Programme (Prof Dr Azmi b Mohd Shariff &amp; Dr Lau Kok Keong)</td>
</tr>
</tbody>
</table>

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<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>R&amp;D Stewardship</td>
<td>MyRA Score (RU)</td>
<td>Target 100</td>
</tr>
<tr>
<td></td>
<td>Average no of publication per Faculty member</td>
<td>Target 2.6</td>
</tr>
<tr>
<td></td>
<td>Research Grant (New) (in RM mil)</td>
<td>Target 20</td>
</tr>
<tr>
<td></td>
<td>No of Commercialisation (New)</td>
<td>Target 1</td>
</tr>
<tr>
<td></td>
<td>National COE (Cumulative)</td>
<td>Target 2</td>
</tr>
</tbody>
</table>
Industry Engagement

From the design of curriculum to applied research, the University works with domestic and international partners to equip the faculty members, students and researchers with the state-of-the-art knowledge and skills that enable them to excel in their respective roles. Engagement with industry is unassumingly important. UTP solicits advice and input from industry leaders in order to provide value in the many areas of engagement: skill development, work placements, applied research, consultancies and more. UTP’s partners include sectoral industry households such as Halliburton, Shell, Schlumberger and Hitachi, just to name a few.

Amongst the highlights in industry engagement for FY2013 include the establishment of 2 new chairs: PETRONAS Carigali Professorial Chair in Enhanced Oil Recovery (EOR) and Sapura Kencana Professorial Chair in Integrated Deepwater Construction and Drilling. Currently the University has 6 professorial chairs, 4 others being Schlumberger, Shell, Mitsubishi and Technip. Long standing relationship with the industry has benefited the University when the University received OMEGA software including training costs worth RM3 million.

<table>
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<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Industry Engagement</strong></td>
<td>Endowment from Industry (in RM mil)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Software Gifts from Industry (in RM mil)</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>No of Professorial Chairs (Cumulative)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>No of Projects from Collaborations (New)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Highlight**

- ✔ 2 new Chairs i.e. PETRONAS Carigali Professorial Chair in Enhanced Oil Recovery and Sapura Kencana Professorial Chair in Integrated Deepwater Construction and Drilling
- ✔ Received OMEGA software including training costs worth RM 3 mil
Effectiveness and Efficiency

The strength of the higher education sector comes from its ability to adapt and exhibit an acute understanding to operate efficiently. UTP is mindful of the need to manage responsibly which are not only impacting on savings, and on managing resources but also on enhancing the effectiveness of what the University in delivering across all of its activities.

Despite the progress, there are still available opportunities for improvement. Shared services are often heralded as the solution to efficiency in higher education, and there is certainly scope to do better in this area.

One of the highlights in FY2013 was the increase in students’ fees. The step described the University’s efforts in building, investing, improving and adapting what it does to give to the students the best possible higher education, and future opportunities. Students and sponsors understandably would want to know that they are getting value for money. This has led the University to take noticeable changes and efforts in the way it is optimising on its resources.

<table>
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<th>Highlight</th>
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<tbody>
<tr>
<td>✓ Approval to increase fee for new students effective Jan 2014</td>
</tr>
<tr>
<td>✓ Cost optimization and business improvements</td>
</tr>
<tr>
<td>• The introduction of Travelling Management System (TVM)</td>
</tr>
<tr>
<td>• The migration of SAP Software from PINTAS to ECC6.</td>
</tr>
<tr>
<td>• The P-Card (Purchase Credit Card) for participating vendors to expedite procurement process</td>
</tr>
<tr>
<td>• The integration of UTP A&amp;R functions to PETRONAS Group under FS2.</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effectiveness &amp; Efficiency</td>
<td>Revenue (in RM mil)</td>
<td>96.5</td>
</tr>
<tr>
<td></td>
<td>% of OPEX Optimisation</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>% of CAPEX Utilisation</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>LTA / LTI</td>
<td>0</td>
</tr>
</tbody>
</table>

In summary, the University’s cohesive and collective performance shown in the results achieved in academic positioning, R&D stewardship, industry engagement and the University’s overall efforts in operating effectively and efficiently - have all delivered outstanding outcomes.

A motivator, Ralph Marston once said, “Do not lower your expectations to meet your performance. Instead, raise your level of performance to meet your expectations. Expect the best of yourself, and then do what is necessary to make it a reality”. At UTP, expectations are raised on a continual basis. However, the unwavering focus on the aspired results, outweighs the demanding working expectations.
Moving Forward

Moving forward, there will always be looming challenges impacting institutions like UTP including attracting and retaining talents in the education sectors as well as within various industries, nurturing and developing industry leaders, enhancing academic capability to compete with regional and international institutions, transforming research and innovation landscape in both administration, product development and commercialisation - in addition to aspects that would invariably affect the sustainability of any higher learning institutions like infrastructure, endowment, and alumni management.

The University is ambitious with its targets and projections for FY2014. It aims to:
- achieve “Outstanding” status for SETARA 2014 with Tier-6;
- be amongst the Top 80 for engineering and technology discipline in QS Asian University Ranking;
- achieve ‘Outstanding” status for MyRA 2014 with 6-Star; and
- be rated 4-Star for overall ranking in QS Star rating

We have a clear map for us to navigate through challenges to achieve our vision and mission. Thus far, we have outdone ourselves by breaking our own records to achieve certain milestones earlier than targeted.

Appreciation

I would like to thank YABhg Tun Dr Mahathir bin Mohamad, the University’s Chancellor for his exemplary leadership. Also, my deepest gratitude goes to Tan Sri Sidek Hassan and Tan Sri Dato’ Shamsul Azhar Abbas, Pro Chancellors and Puan Juniwati Rahmat Hussin, the Chairman of the Board and my fellow board members for their collective wisdom, encouragement, support and counsel. Their credibility in their respective professions have lent tremendous weight to the growth of the University.

On behalf of the Board of Directors, the Management and staff, I wish to record my sincerest appreciation and gratitude to our partners, stakeholders and individuals whose trust, expertise and support have cumulatively contributed to the University’s performance this year.

And most importantly, I owe many thanks to all staff for their commitment, support and high degree of professionalism during this period.

Thank you.

Datuk Ir (Dr) Abdul Rahim Hashim
Vice Chancellor
Highlights

• Overview
• Academic Positioning
• R&D Stewardship
• Industry Engagement
• Students’ Achievements
Overview

Establishment: 1997

400 acres built areas
600 acres forest reserved

Academic Staff 340 (61% with PhD)
Academic/Admin Ratio 1:12 (23% expatriate)

Student 7330
International Students 23% from 50 countries

36 Programmes (Undergraduate + Postgraduates)
Undergraduate/Postgraduate Ratio 1:4
Alumni 10,716
95% employability < 6 months

MSC Status University

Aga Khan Award 2007

Academic Positioning

5 Star in Internationalisation, Facilities & Access

Ranked, 204
Ranked **103** in QS Asian University Ranking in Engineering & Technology discipline

**TOP 251-300** in QS Asian University Ranking in Environmental Science discipline

Tier-5 (Excellence) in Teaching & Learning

ISO-9001:2008 for Management of Final Examination for Undergraduate Programmes

Recognised Structured Industrial Internship Programme

**2.5** publications in citation index journal per staff (in ISI & SCOPUS)

Information Resource Centre with more than **200,000** volumes including **25,000** e-materials
R&D Stewardship

5 Star (Excellence) in Research

6 Professorial Chairs

15 Lab Scope (testing & calibration)
Accredited

First Private University Accredited with the University Testing Machine Laboratory

More than 100 MoUs Signed with Universities, Industries and Research Institutions

National Centre of Excellence (Hi-COE)
• Centre for Innovative Nanostructures and Nanodevices (COINN)

9 UTP’s Centre of Excellence
3 Research Centres
More than 220 patents (Pending & Granted)

Over RM 23 Million External Research Funding (Average per year)

151 GOLD
167 SILVER
79 BRONZE
medals won at expositions

Industry Engagement

53 networking with Universities & Research Institutions

400 Local and International industrial partners
Collaboration with 22 industries
Students’ Achievements

UTP Petrobots wins awards at the Malaysia International Robot Competition

Champion of the Highest Early Strength Concrete Cube Competition

Gatra Pertama Launced – First ever gamelan album produced in Malaysia by university students

Victory at World Dance Festival

4th time as Overall Champion of the International Students Sports Carnival
The Annual Review

• Main Events
• Academic Overview
• Research & Development
• Student Achievements and Activities
Main Events

The University vibed with various events from collaboration and partnership to corporate events and corporate social responsibility related activities. The following are the main highlights:

9 January 2013

Vice Chancellor’s Annual Address

Datuk Ir (Dr) Abdul Rahim Hj Hashim, UTP Vice Chancellor delivered his 2013 Annual Address entitled “Towards a Distinctive Reputation” at UTP Chancellor Hall.

The annual address is a platform for the Vice Chancellor to inform the university’s overall performance, as well as to deliver his aspiration and direction for the new year.

The session also provided an avenue for intellectual discourse between UTP Management and staff, especially on the matters of Academic, Research and Operational Excellence.

Organised by UTP Finance & Asset Management, this year’s address discussed at length on what makes UTP a high performing university and the challenges it faces, as well as on the global education trend and how it will affect the university’s community.

In his address, Datuk Ir (Dr) Abdul Rahim also stressed on the importance of being agile, adaptive, focused, dedicated and having a consistent mindset, while striving to create a balanced ecosystem for academic and research.

9 January 2013

Assoc Prof Dr Othman Mamat Appointed as The Distinguished Member of The Asean Quality Assurance Network (AQAN) Regional Assessor

Congratulations to Associate Professor (AP) Dr Othman Mamat of Mechanical Engineering Department for his recent appointment as one of the distinguished members of the ASEAN Quality Assurance Network (AQAN) Regional Assessor.

AQAN is jointly conducted by the German Academic Exchange Service (DAAD), the German Rectors’ Conference (HRK), and the University of Potsdam, Germany together with partners from Southeast Asia and Europe – ASEAN Quality Assurance Network (AQAN), ASEAN University Network (AUN), European Association for Quality Assurance in Higher Education (ENQA) and the Regional Centre for Higher Education and Development (SEAMEO RIHED). Its objective is to develop the capacity in the field of quality assurance (QA) in the ASEAN region.

8 – 13 January 2013

International Goodwill Programme, Siem Reap, Cambodia

15 students who are members of the Rotaract Club of UTP traveled to Siem Reap, Cambodia using their own pocket money and some sponsorship only to put smiles on the unfortunate people.

International Goodwill Programme is the signature community programme organised annually by Rotaract Club of Universiti Teknologi PETRONAS (RACUTP). This year, the project was conducted in Siem Reap, Cambodia. Its aim is to promote peace and most importantly contribute to the community outside and inside of Malaysia. Throughout the programme, the students were accompanied by their advisor, En Zulkarnan Abdul, Manager of Strategic Branding and Communications, UTP.

As part of the activities and contributions to this programme, the students painted the school walls, taught English and played games with the students, donated bio-sand water filters, books and stationery for the underdeveloped Meanchey Primary School in Siem Reap, Cambodia. 10 units of bio-sand water filters were also donated to the villagers in Prey Chrouk, near Meanchev Primary School.
21 January 2013
Signs MoU With University of Southampton UK

The University of Southampton, a leading UK teaching and research institution with a global reputation for high quality, top-notch research signed a Memorandum of Understanding (MoU) with UTP. The signing was a step towards opening pathways for research and academic-related collaborations between both universities.

The MoU was signed between Professor Mark Spearing, Pro Vice-Chancellor (International), University of Southampton and Datuk Ir (Dr) Abdul Rahim Hj Hashim, Vice-Chancellor, UTP. The event was also graced by Dr Mohamed Ali Abdul Rahman, Director of Institutions Governance Division, Ministry of Higher Education.

Following this MoU, University of Southampton and its Malaysia campus will be forging closer and stronger ties with UTP to develop academic exchanges and cooperation in teaching and research through collaborations which include information sharing sessions, joint academic and scientific activities such as seminars and conferences, academic exchanges and student exchanges opportunities, and joint application of research and development grants.

21 January 2013
Workshop on Way Forward for UTP Student Industrial Internship Programme

In maintaining the standard of Student Industrial Internship Programme (SIIP), Centre for Student Internship, Mobility and Adjunct Lectureship (CSIMAL) together with the Faculty of Engineering, organised a workshop entitled “Way Forward for UTP Student Industrial Internship Programme” at Impiana KLCC Hotel, Kuala Lumpur.

The workshop was officiated by Datuk Ir (Dr) Abdul Rahim Hj Hashim, UTP Vice Chancellor. More than 40 participants from UTP and representatives from various industrial backgrounds such as PETRONAS Carigali, Schlumberger, Construction Industry Development Board Malaysia (CIDB), Ministry of Higher Education (MOHE), Pricewaterhouse Coopers, General Electric Oil & Gas, Baker Hughes, Malaysian Nuclear Agency, Halliburton, Total ÉP, Petroleum Geo-Services, Intel Malaysia, PERODUA and Talent Corp came to give their support and put their thoughts together for the workshop. Although the participants came from different companies and background, their commitment and participation were exceptional.

30 January 2013
Conferred A Tier 5 Rating For D-Setara ‘11

UTP has been conferred with a TIER 5 (EXCELLENT) rating for D-SETARA ‘11.

D-SETARA is a Discipline-Based Rating System which is almost similar to SETARA. It is a measurement tool used by MQA/MOHE to measure quality of teaching and learning for undergraduate programmes in four cluster of disciplines: Engineering, Medicine, Dentistry & Pharmacy, Health Sciences and Hospitality & Tourism. Participation in D-SETARA is voluntary. Invitations were made to all Higher Education Institutions (HEIs) offering undergraduate programmes and have had the first batch of graduates in 2011. The Engineering discipline however, involved only HEIs which offer four-year degree programmes. The number of institutions rated in each discipline were 25 (Engineering), 15 (Medicine, Dentistry and Pharmacy), 14 (Health Sciences) and 7 (Hospitality and Tourism). This means that UTP have delivered 5 Star services to its stakeholders in teaching and learning for Engineering Discipline for undergraduate programmes. Ten (10) other Institutions of Higher Learning were also accorded TIER 5 rating.
1 February 2013

**Baker Hughes – Yayasan UTP**

Presented Scholarship During the Launching of Baker Hughes Petroleum Education Centre

Four talented and high achievers of UTP were awarded the Baker Hughes (BH) – Yayasan UTP (YUTP) Scholarships during the launching of Baker Hughes Petroleum Education Centre (BH PEC) at UTP. The scholarship recipients are Christine Ch’ng Wei Mann (Chemical Engineering), Norshazliana Zainal Abidin (Civil Engineering), Kishen Nanda Kumar (Mechanical Engineering) and Sum Yin Yan (Chemical Engineering).

The scholarships were awarded as part of Baker Hughes initiatives in developing the industry’s future skilled workforce.

Presenting the scholarships to the students was Mr Ng Say Heng, BH Southeast Asia Vice President, witnessed by Datuk Ir (Dr) Abdul Rahim Hashim, UTP Vice Chancellor.

8 February 2013

**UTP and Transwater Tenaga Sdn Bhd Joint Forces in Research**

UTP, the first and only private university in Malaysia that received 5 Star Rating under the Malaysian Research Assessment System (MyRA), signed a joint collaboration agreement with Transwater Tenaga Sdn Bhd (Transwater Tenaga), to pursue collaboration in the field of research and other areas of mutual interest.

For the signing of the agreement, UTP was represented by its Vice Chancellor, Datuk Ir (Dr) Abdul Rahim Hashim while Transwater Tenaga was represented by its Executive Director, Mr Tan U-Juin.

“As the university continues its journey towards excellence, the creation of partnerships and synergies with the industry is a key initiative of the university. UTP is always mindful of the importance of industry-university linkage and that this factor is the differentiator for success. This is to ensure that UTP remains competitive and relevant to the industry and nation at large, besides ascertaining global recognition,” said Datuk Ir (Dr) Abdul Rahim.

15 February 2013

**The University warmly welcomes Malaysia’s Prime Minister**

YAB Dato’ Sri Mohd Najib Tun Abdul Razak, Malaysia’s Prime Minister visited UTP. YAB Dato’ Sri Mohd Najib was accompanied by the Minister of Rural and Regional Development, YB Dato’ Seri Mohd Shafie Apdal; Perak Menteri Besar, YAB Dato’ Seri DiRaja Dr Zambry Abdul Kadir; Perak State Assembly Speaker, YBhg Datuk R. Ganesan; Perak State Secretary, YB Dato’ Abdul Puhat Mat Nayan and Perak State Finance Officer, YBhg Datuk Mohd Ghazali Jalal.

UTP Vice Chancellor, YBhg Datuk Ir (Dr) Abdul Rahim Hj Hashim and UTP Management Committee members were on hand to receive the Prime Minister and his delegation. YAB Dato’ Sri Mohd Najib was briefed on UTP’s progress by UTP Vice Chancellor and later taken for a short tour of the University’s facilities which included the Information Resource Centre and the Chancellor Hall.

The Prime Minister then performed the Friday Prayer at UTP’s An Nur Mosque together with 3,000 UTP students and staff before departing to UiTM Seri Iskandar, Perak.
18 February 2013

Sports & Co-Curriculum Appreciation Night

Co-Curriculum Unit, Student Support Services Department successfully organised the 2012 UTP Sports & Co-Curriculum Appreciation Night at UTP Main Hall.

The event was organised with the aim to show appreciation and acknowledgement to UTP students who had contributed in elevating the university’s image and reputation through sports and extra-curricular activities throughout 2012. In addition, it was held to celebrate students who had embodied the spirit of excellence and overcome the challenges in sports.

The event was graced by the presence of Datuk Ir (Dr) Abdul Rahim B Hashim, UTP Vice Chancellor; Tn Hj Mohamed Noor Rosli Baharom, Deputy Vice Chancellor Student Affairs and Alumni, as well as UTP staff and students.

18 – 21 February 2013

UTP Debate Club Emerged Champion in The 2013 Asian English Olympics

UTP Debate Club (UTP DC) emerged as the Institutional Champion in the 2013 Asian English Olympics (AEO13) at Bina Nusantara University in Jakarta.

The Asian English Olympics is an annual event organised by Binus University, as a platform to gather high school and university students all over Asia for the love of English.

This year, AEO13 had over 500 participants representing more than 100 education institutions from the Asian region, including Universiti Teknologi MARA (UiTM) and International Islamic University Malaysia.

AEO13 had six categories of competitions, namely debate, speech, storytelling, newscasting, scrabble and short movie-making. 21 students from UTP took part in all six categories. The students won individual awards for different categories, each award accumulating points for the Institutional Championship. This was the first time UTP won the first place since English Olympics was introduced in 2005. Binus University, Jakarta and Saint Marian College, Manila ranked second and third respectively.

21 – 23 February 2013

Sponsored Two Schools in Malaysian Technology Expo 2013

Faculty of Science and Information Technology (FSIT) of UTP recently sponsored two schools, Sekolah Kebangsaan (SK) Tronoh and Sekolah Menengah Kebangsaan (SMK) Seri Iskandar to participate in the Malaysian Technology Expo 2013 (MTE 2013).

Supported by the Ministry of Science, Technology and Innovation (MOSTI), this annual event is a platform for young inventors to showcase their invention and innovation to the local and international public. The objectives of MTE2013 participation are:

• To provide educational experience to the students through participation at science and technology exhibitions
• To introduce students to the world of science fair
• To develop the competencies of the students to participate in national and international level science competitions
• To develop students’ soft skills through interactions with the judges, trade visitors and public
• To expand the schools’ network with other schools and institutional bodies in MTE 2013
22 – 27 February 2013
Hsinchu County Lantern Festival Exchange Programme 2013

Eight members of UTP Performing Arts Group (UPAG) recently participated in the Hsinchu County Lantern Festival Exchange Programme held in Hsinchu Taiwan. UPAG’s participation in this programme is to continuously appreciate the diversity of cultures between Taiwan and Malaysia, as well as to establish networking and friendship among the participants. UPAG was invited to perform Malaysian traditional dances to the honourable Mayor Chiew Ching Chun of Hsinchu County, Hsinchu County Council members and delegates from various countries who were involved in the Lantern Festival. There were also performances by Hsinchu Chinese Orchestra and Chinese Orchestra Group from Malaysia, led by Mr Goh Suk Liang.

25 February 2013
Signing Ceremony Agreement for The Sponsorship of A Professorial Chair in Deepwater and Subsea Technology Between Technip Geoproduction (M) Sdn Bhd and UTP

Universiti Teknologi PETRONAS (UTP) and Technip Geoproduction (M) Sdn Bhd signed an agreement today for the establishment of the Technip Chair in Deepwater and Subsea Technology, marking a milestone in spearheading research excellence and providing enhanced learning experience at the university.

During the signing, UTP was represented by its Vice Chancellor, YBhg Datuk Ir (Dr) Abdul Rahim Hj Hashim, while Technip was represented by its Senior Vice President Asia Pacific, Mr Lim Kwee Keong.

The agreement is a testament of Technip’s commitment in providing its expertise and knowledge to strengthen UTP’s position in research and development in Deepwater Technology, which is one of UTP’s niche areas or Mission Oriented Research.

26 February 2013
UTP Brings Chinese New Year’s Cheer to Underprivileged Children

The Chinese New Year festivity continues at UTP as the university brought cheer to the under privileged children of Pusat Jagaan Pertubuhan Pengurusan Anak-Anak Yatim dan Miskin Anning, Ipoh, Perak.

The children (aged 6 to 17) gathered at the university’s lobby and were warmly greeted by UTP Vice Chancellor, YBhg Datuk Ir (Dr) Abdul Rahim Hj Hashim, who then handed out cash and hampers to the children, and donated five computers to the home’s caretaker, Mr Loke Wai Loon.

Afterwards, the children were treated for a sumptuous afternoon tea before they headed back home.
28 February 2013
**An-Nur UTP Victorious In Marhaban Bahasa Melayu Competition**

Congratulations to An-Nur UTP team who emerged victorious in the Marhaban Bahasa Melayu competition held at Perak Cultural and Arts Department (JKKN) auditorium.

Officiated by YB Dato' Zainol Fadzi Haji bin Paharudin, Perak Exco of Arts, Culture, Youth and Sports Committee, the event was aimed to revitalise Marhaban culture as well as to attract the public, especially the young generation, to appreciate Marhaban.

This was the first time that the Marhaban was performed in Bahasa Melayu, as generally it would be sung in Arabic.

The competition is open to all private and public higher education institutions, secondary schools, private institutions and government bodies.

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7 March 2013
**Graduates in the 21st Century – an Annual Address by the Chancellor, Tun Dr Mahathir Mohamad**

YABhg Tun Dr Mahathir Bin Mohamad, Chancellor of Universiti Teknologi PETRONAS (UTP), gave his annual public lecture in front of a packed audience at UTP’s Chancellor Hall. This year’s lecture was entitled ‘Graduates in the 21st Century’.

UTP has been organising the public lecture series since 1998 and since then, has invited many prominent speakers including His Royal Highness The Regent of Perak, Raja Dr Nazrin Shah; YBhg Prof Emeritus Tan Sri Dato’ Dr Khoo Kay Kim and the late YBhg Tun Mohd Ghazali Shafie.

UTP Lecture Series is a valuable forum for knowledge sharing between the speakers and the university community on various topics and issues. The knowledge and information that can be obtained from these sessions complement and enhance what the students gain within the classroom and formal education. As for the lecturers and staff, such sessions will provide them with better insights of national and global issues.

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8 March 2013
**Shell Professorial Chair in Petroleum Geoscience Continues**

UTP and Shell, the global leader in power, energy and gas technology signed an agreement to continue the sponsorship of Shell Professorial Chair in Petroleum Geoscience at UTP. The signing ceremony was formalised between Datuk Ir (Dr) Abdul Rahim Hj Hashim, UTP Vice Chancellor and Mr Iain Lo, Shell Malaysia Chairman.

The establishment of the Chair was a result of the signing of an MoU between UTP and Shell in 2006.

The objective of the Chair is to promote an integrated system of research, training, information and documentation in reservoir characterisation in the field of Petroleum Geoscience generally. The Chair also serves as a means of facilitating collaboration between UTP and high-level, internationally recognised researchers and academics of other universities and institution.

UTP hopes other top-notch and leading industry players will support the university with the aim to steer UTP academic and R&D programmes towards international recognition.
22 – 24 March 2013

3rd Perak Taekwondo Junior Development League Competition

Universiti Teknologi PETRONAS (UTP) Taekwondo Team bagged three gold and one silver medal in the 3rd Perak Taekwondo Junior Development League Competition (Circuit 1) at Pantai Remis, Perak. The event was organised by Persekutuan Taekwondo Negeri Perak (Perak State Taekwando Association), Taekwondo Malaysia (Malaysia Taekwando Association) and Perak State Sports Council (Majlis Sukan Negeri Perak).

This state level competition was aimed to develop and select representatives from Perak to participate in the National Taekwondo Championship. There were 2 categories contested, namely Sparring and Poomsae. This event will be conducted in 3 circuits at different districts in Perak to encourage participation.

23 March 2013

UTP Family Day

23 March 2013 was an amazing day filled with laughter, fun and excitement for more than 300 staff of Universiti Teknologi PETRONAS and their families as they gathered at the Lost World of Tambun, Perak for the annual UTP Family Day.

Themed “Pirates of The Carribean”, the event was an avenue for UTP staff to unwind and, most importantly, to foster the spirit of unity between UTP community and their family members.

29 March 2013

Euphonious 2013

The final round of Euphonious 2013 competition was successfully held at Chancellor Hall, Universiti Teknologi PETRONAS (UTP).

Euphonious 2013 is an inter-university musical band competition featuring 22 talented musical bands, including one from Universiti Kuala Lumpur Malaysian Institute of Industrial Technology (UniKL MITEC), Johor and another from Multimedia University, Cyberjaya. The event was organised by the Co-Curriculum Unit, Student Support Services Department and International Culture Club, Universiti Teknologi PETRONAS.

Now in its eighth year, the competition was organised with the objective to provide a platform for institutions of higher learning students (both local and international) the opportunities to showcase their hidden talents in performing arts. With the theme “Audio Transcendence”, it aimed to solidify unity among students to create a more harmonious and enjoyable environment through music.
3 April 2013

**Embrace Quality, Enrich Productivity, Enhance Sustainability**

Universiti Teknologi PETRONAS (UTP) held its annual Quality Day (Q Day 2012), to honour staff for their endless dedication, contribution and commitment in ensuring high standard of quality in all aspects of the university’s processes. Held at UTP Main Hall, Q Day 2012 marked the 10th year of its organisation and was greeted with much enthusiasm from all staff.

The event was officiated by UTP’s Vice Chancellor, YBhg Datuk Ir (Dr) Abdul Rahim Hashim. In his speech, YBhg Datuk highlighted that this year’s theme ‘Embrace Quality, Enrich Productivity, Enhance Sustainability’ is aptly chosen to further broaden the university’s awareness, increase knowledge and strengthen efforts in incorporating the PETRONAS Five Quality Principles in our work. “With the assimilation of these principles in each of us, we will deliver services of the highest standards for the benefit of our internal and external customers as well as our stakeholders”, said YBhg Datuk.

3 – 7 April 2013

**2013 Pencak Silat Festival and Taming Sari V Championship For Higher Institution**

UTP Pencak Silat Team won 1 gold, 1 silver and 2 bronze in the 2013 Pencak Silat Festival and Taming Sari V Championship for Higher Institutions at Universiti Kebangsaan Malaysia (UKM).

Organised by UKM Pencak Silat Club, the event saw the participation from eight institutions, namely UTP, Universiti Kebangsaan Malaysia (UKM), Universiti Malaya (UM), Politeknik Ungku Omar (PUO), International Islamic University Malaysia (IIUM), Universiti Pertahanan Nasional Malaysia (UPNM), Insaniah University College (KUIN) and Albukhary International University (AIU).

11 – 14 April 2013

**PETOBOOTS wins Awards at MIROC 2013**

UTP Robotics Society or PETROBOTS did the university proud when they clinched awards at the Malaysian International Robotic Competition (MiROC 2013). The competition, (formerly known as Malaysia University Robot Competitions, MuROC) was organised by Universiti Malaysia Perlis (UNIMAP). MiROC 2013 serves as a platform for students to showcase their own built robot, exchange and gain latest robotic technology as well as to seek innovative ways of building robots.

Participation came from Malaysia and international public and private universities (19 teams), Malaysian technical and skills institutions (26 teams) and secondary schools (24 teams). The event offered four game categories, namely Rope Climbing Robot, Fire Fighting Robot, Paintball Robot and Rescue Robot.
13 April 2013
Performing Arts at its Best at FESCO 2013

Co-Curriculum Unit of Student Support Services Department, Universiti Teknologi PETRONAS (UTP) organised the sixth edition of the Festival of Colours of the World (FESCO) 2013 at the Chancellor Hall, Universiti Teknologi PETRONAS.

The event was officiated by Puan Juniwati Rahmat Hussin, Chairman of Institute of Technology PETRONAS Sdn Bhd. Board of Directors/PETRONAS Vice President and Venture Director, Pengerang Integrated Complex.

The main objective of the festival was to provide an opportunity for students of Higher Learning Institutions (local and international) to showcase their talent in performing arts. The event also helped to inculcate a deeper appreciation of Global arts and culture.

16 – 19 April 2013
Standing Tall at i-ENVEX 2013

Congratulations to UTP team for their achievements in winning three awards for their outstanding and creative innovations at the 4th International Engineering Invention & Innovation Exhibition (i-ENVEX) 2013, held at Universiti Malaysia Perlis (UniMAP) Main Campus, Perlis.

i-ENVEX is an annual international exhibition organised by ENVEX Young Researcher Club (EYReC), UniMAP and Ministry of Higher Education Malaysia (MOHE). This year’s i-ENVEX and MIYIO (Malaysia International Young Inventors’ Olympiad - another exhibition that runs concurrently) have attracted over 700 inventors from 14 countries, including Egypt, Canada, Iran, South Korea and Romania. i-ENVEX is organised with the aims to provide opportunity to promising young innovators to share their creative idea(s) as well as to provide an excellent exposure of invention and technological advancements in various sectors.

19 – 20 April 2013
UTP Bagged Three Prizes in the Highest Early Strength Concrete Cube Competition (HESCCC) 2013

UTP team bagged three prizes in the 2013 Highest Early Strength Concrete Cube Competition (HESCCC) held at Universiti Teknologi MARA (UiTM) Shah Alam. The event was organised by American Concrete Institute (ACI) – KL Chapter in collaboration with Concrete Society of Malaysia (CSM) and UiTM, Shah Alam.

36 teams consisting of educational institutions and renowned industrial organisations participated in this competition, which included Universiti Malaya, Universiti Sains Malaysia, Universiti Teknologi Malaysia, Universiti Putra Malaysia, International Islamic University Malaysia, Universiti Teknologi MARA Shah Alam, Lafarge Concrete Malaysia, BASF Malaysia and CML Concrete Materials Laboratory Sdn Bhd, among others.
20 – 21 April 2013

2013 National Malay Gamelan Competition

UTP Gamelan Group, Sanggar Kirana, walked away with a cash prize of RM6,000.00 when they won the 2nd runner up at the 2013 National Malay Gamelan Competition, held at Sultan Mizan Hall, Universiti Malaysia Terengganu (UMT).

The competition’s objectives were to create and promote a culture of appreciation and love towards Malay Gamelan. The two-day event was organised by Terengganu State Museum Board in collaboration with State Tourism, Art, Culture and Heritage, and was participated by 13 gamelan groups.

This year’s event was officiated by YBhg Dato’ Haji Mazlan Ngah, Terengganu State Secretary.

25 April 2013

UTP Reaching through Career & Leadership Talk

UTP Alumni visited Sekolah Menengah Kebangsaan (Perempuan) St George, Penang and organised the “Career & Leadership Talk”. The objective of this programme is for UTP Alumni to continue strengthening its existence at its chapters and involve actively with the community at the alumni’s respective area. Through this programme, it will also develop positive personal attributes in UTP potential students.

90 Form 4 and Form 5 students from 8 selected schools across Penang benefited from the talk. The sharing session was given by UTP Alumni members who are currently working at various industries at Bayan Baru, Penang and Kulim, Kedah.

Based on the positive feedbacks received, the students enjoyed the talk and learnt greatly about UTP. They were keen to pursue their studies in UTP and look forward to seeing more activities from UTP Alumni.

27 April 2013

Professor Dr Norani makes us proud

Universiti Teknologi PETRONAS (UTP) would like to congratulate Prof Dr Norani Muti Mohamed on her appointment as Fellow of the Academy of Sciences Malaysia (ASM). She is among the latest of the country’s academics elected as a Fellow at ASM’s 18th Annual General Meeting.

Prof Norani, who is currently holding a position as Director, UTP Centre of Innovative Nanostructures & Nanodevices (COINN), specialises in the area of Thin Film technology, Semiconductor technology and Nanotechnology. She is also the UTP Director of Nanotechnology Mission Oriented Research (MOR) since 2005. She has founded the Centre of Innovative Nanostructures and Nanodevices (COINN) at UTP with the objective of establishing a library of nanomaterials and synthesis techniques for accelerated production of innovative and beneficial commercialised products. In 2011, COINN was recognised as Nano Malaysia Centre of Excellence based on its continuous effort on R&D on nanotechnology, focusing on alternative and renewable energy.
3 – 5 May 2013

**Champion Again at Debat Muhibbah**

It was a joyous moment for UTP when its Malay Debate Team was crowned “Debat Muhibbah” Champion, for two consecutive years. In 2012, the team not only emerged as the Champion but also won the Best Speaker Award.

Debat Muhibbah, an annual Malay language debating event, was also participated by three other countries namely Brunei, Cambodia and Singapore. As in the previous years, the competition follows a parliamentary style concept, comprising the government and opposition team. UTP was announced as the eventual winner after defeating Singapore in the final round of the competition.

9 – 11 May 2013

**UTP Bags 87 Medals in ITEX 2013**

UTP researchers continues their excellent achievements in research and innovation when they bagged 31 gold, 54 silver and 2 bronze medals in the coveted 2013 International Invention, Innovation and Technology Exhibition (ITEX 2013).

Organised annually by MINDS (Malaysian Invention & Design Society), ITEX 2013 attracted participations from 47 institutions in Malaysia and more than 1000 inventions from various countries.

8 – 9 June 2013

**UTP Swimmers Finish 1st Runner-up in 2013 MASISWA Swimming Championship**

UTP Swimming Team emerged 1st runner-up when they bagged 8 medals (5 gold, 2 silver and 1 bronze) in the 2013 MASISWA Swimming Championship. They also brought home RM500.00 and a trophy.

The event was organised by Majlis Sukan IPTS Malaysia (MASISWA) in collaboration with INTI International University, Negeri Sembilan. It is open to all private higher learning institutions with the objective of selecting swimmers to represent Majlis Sukan IPTS Malaysia (MASISWA) at the 5th ‘Sukan Institusi Pendidikan Malaysia’ (SIPMA) from 16 to 22 November 2013.
15 June 2013
Learning Mathematics and Science the fun way

Kampar and SK Ulu Geruntum, Gopeng took part in UTP’s inaugural 1MKIDS (1 Malaysia Kids) Programme. They were joined by six other schools namely SK Tronoh, Tronoh; SK Seri Tronoh, Tronoh; SK (T) Tronoh, Tronoh; SJK (C) YitChee, Pusing; SK St. Bernadette’s Convent, Batu Gajah and SK Seri Iskandar, Seri Iskandar.

Organised by Faculty of Science and Information Technology (FSIT), UTP and UTP Engineering Design Exhibition 31 (SEDEX 31) team, the 1MKIDS programme aims to create awareness of cultural diversity in Malaysia among school children, promote science and technology among primary students, build interest in learning Science and Mathematics through fun and simple ways, as well as expose the students with multimedia development skills. The event was officiated by Professor Dr. Noorhana Yahya, Dean of FSIT, UTP.

For this programme, 100 students, aged 10-12 years, were selected from various schools in Kinta, Kinta Selatan and Perak Tengah. They were divided into 10 groups, with each group consisting of students from different races mixed together, namely Malays, Chinese, Indians and Orang Asli.

15 – 16 June 2013
PETRONAS Al-Quran Recitation Competition 2013

Majlis Tilawah Al-Quran PETRONAS (MTAQ) 2013 or the PETRONAS Al-Quran Recitation Competition was held at Chancellor Hall, UTP. 57 staff representing various zones on operating units took part in this competition namely Wilayah Persekutuan, West Coast, East Coast, Sabah/Wilayah Persekutuan Labuan, Sarawak as well as Brunei, Indonesia, Turkmenistan, South Africa, Iraq and Sudan.

Encik Amir Hamzah Azizan, Vice President of PETRONAS Downstream Marketing in his closing speech stated that event such as the Majlis Tilawah Al-Quran is significant to enhance the realisation of PETRONAS’ shared values, universality and relationship among PETRONAS family members.

Tn. Hj. Mohamed Noor Rosli Baharom, UTP Deputy Vice Chancellor of Student Affairs and Alumni in his welcoming address said that to acquire the right “fikrah” or mindset, students must not only be equipped with the knowledge of science and technology but with other aspects of knowledge such as spiritual and character building. He was representing YBhg Datuk Ir (Dr) Abdul Rahim Hj. Hashim, UTP Vice Chancellor.

18 – 19 June 2013
Technology, Education and Career (TEC) Exhibition 2013

The Student Representative Council of UTP (SRCUTP) and the Student Support Services Department (SSSD) of UTP in collaboration with the Ministry of Education (MOE) and Ministry of Science, Technology and Innovation (MOSTI) organised the Technology, Education and Career (TEC) Exhibition 2013 at UTP. The event was officiated by YBhg Dato’ Mokhzani Mahathir, Executive Vice Chairman, Sapura Kencana Petroleum Berhad.

54 companies participated in the 12th edition of TEC. With the theme “Enrich Your Career Path”, the objective of this event is to strengthen the University’s relationship with the industries mainly in the areas of human capital development, and create awareness among UTP students and the public on available learning opportunities, job recruitments and the latest available technology.
21 – 23 June 2013

**UTP Crowns Overall Champion in Kejohanan Sukan MASISWA Zon Utara 2013**

Universiti Teknologi PETRONAS contingent achieved an outstanding feat winning 12 medals to emerge as the overall champion in Kejohanan Sukan MASISWA Zon Utara 2013. The tournament was held in UniKL Malaysian Spanish Institute (MSI), Kedah in collaboration with the Ministry of Higher Education (MOHE) and Majlis Sukan IPTS Malaysia (MASISWA).

The tournament saw more than 400 athletes from 11 private institutions in the Northern Zone, competing against each other to clinch the championship title. Participation came from UTP, UniKL MSI, UniKL Royal College of Medicine Perak (RCMP), Open University Malaysia (OUM), Kolej PolyTech MARA (KPTM) Alor Star, Universiti Tunku Abdul Rahman (UTAR), Kolej Tunku Abdul Rahman (KTAR) Perak, Kolej Tunku Abdul Rahman (KTAR) Penang, Alliance University College of Medical Sciences (AUCMS), Kolej Islam Sains & Teknologi (KIST) and Albukhary International University (AiU). During the 3-day tournament, 6 sports were contested namely badminton, netball and tenpin bowling.

21 – 23 June 2013

**Research Expert Panel (REP) Workshop for Assessment of UTP Mission Oriented Research (MORs) Roadmap**

UTP Research and Innovation Office, in collaboration with UTP Corporate Planning and Transformation Office, successfully conducted the Research Expert Panel (REP) workshop at Sama-Sama Hotel, KLIA. With 58 participants, the workshop was conducted with the following objectives:

- To evaluate current performance of MORs vis-à-vis planned roadmap;
- To identify gaps and propose the mitigation plan; and
- To re-fine, re-shape, re-scope and identify new requirement(s), if necessary, for the roadmap to ensure achievable milestones and aspiration.

The evaluation of MORs’ performance vis-à-vis the planned roadmap is essential not only to evaluate the roadmap and its implementation, but also to strategise in driving UTP’s research to a greater height.

22 June 2013

**Chakravedaz Cultural Night (Dance, Singing & Short Film Competition)**

Universiti Teknologi PETRONAS (UTP) Indian Orchestra Group has proven that engineering students can also shine in arts and cultural competition. They emerged first runner up for the dance competition, second runner up and won consolation prizes for the singing competition in the Chakravedaz Cultural Night. This art and cultural, as well as charity night event was organised by the Indian Cultural Bureau of Universiti Tenaga Nasional (UNITEN) Kampus Sultan Haji Ahmad Shah (KSHAS).

The event was held with the following objectives:

- A charity event to raise funds and support SJK (T) Ladang Kelpin, Rompin Negeri Sembilan
- To celebrate Indian arts and culture, where dancing and singing played a significant role
- To create a new dimension of dancing and singing by combining classical and contemporary styles
22 June 2013

Experimenting @ UTP Chemistry Lab with Go-Science

120 Year 6 students from SRK St Bernadette’s Convent, Batu Gajah recently attended the Go-Science programme held at UTP. The event was officiated by En Ahmad Maswan Ahmad Fuaad, District English Language Officer, South Kinta District.

Organised by UTP Faculty of Science and Information Technology (FSIT), Go-Science programme is held with the following objectives:

- To create and elevate primary school children’s awareness of Science through real and hands-on experiments. These experiments will then assist to develop students’ long term spatial memory.
- To build and boost students’ interest of learning Science by connecting science in their everyday life. This will aid students to understand better the fundamental concepts of Science.

For Go-Science, the students were required to carry out five experiments at UTP Chemistry Laboratory. The experiments that were carried out are based on Year 6 Science UPSR syllabus.

29 – 30 June 2013

Won 3 gold medals in National Wu Do Championship

Khairul bin Anuar and Aqil bin Muhammad Yusof, did the University proud when they took home 3 gold and 1 bronze medal at the 2013 National Wu Do Championship held at Ji Shang Multipurpose Hall, Kuala Lumpur.

Wushu is both an exhibition and a full-contact sport derived from traditional Chinese martial arts. Organised by Wushu Federation of Malaysia and Wu Do Academy of Malaysia, this national level Wushu competition serves as a build up to the grand National Wushu Championship which will be held in September 2013. UTP sent 2 athletes, Khairul and Aqil (both from Petroleum Engineering programme), who successfully won medals in all the categories they contested. Khairul was also named as the Best Male Athlete in the competition.

4 July 2013

UTP Renews Collaboration with University of Brighton, UK

UTP has renewed its collaboration with University of Brighton in the areas of staff development programme, student exchange programme, joint research and development as well as teaching and learning programme through the signing of a Memorandum of Understanding (MoU). To mark this occasion, a signing ceremony was held at the University of Brighton Campus in United Kingdom. The MoU was signed by UTP Vice Chancellor, YBhg Datuk Ir (Dr) Abdul Rahim Hj Hashim and University of Brighton Vice Chancellor, Prof. Julian Crampton. Also present as witnesses were Prof. Dr. Abdul Rashid Abdul Aziz, Deputy Vice Chancellor, Research and Innovation, UTP and Prof. Stuart Laing, Deputy Vice Chancellor, University of Brighton.

The renewal of this collaboration signals that on-going research and academic activities between the two universities have been fruitful and have produced successful results in the targeted areas. A Joint Working Committee was also established to oversee the collaborative efforts between the two institutions and ensure their effective implementation.
5 – 7 July 2013

3rd Perak Junior Development League Circuit 2 Competition

UTP Taekwondo Team did the University proud when it bagged 5 gold, 3 silver and 2 Bronze medals in the 3rd Perak Junior Development League Circuit 2 held at Dewan Bandaran Kampar, Perak. This state level event was organised by Perak State Taekwon-Do Association (PTNP) and Taekwondo Malaysia (TM) in collaboration with Perak State Sports Council (MSN Perak).

This competition is held with the aim to select representatives from Perak to participate in the National Taekwondo Championship. It consists of 3 circuits (Circuit 1 to 3) and is conducted in several districts around Perak to encourage wider participation of various age levels. For Circuit 1 (held last March), UTP Taekwondo Team won 3 Gold and 1 silver medals.

For Circuit 2, UTP’s performance improved tremendously winning 10 medals. UTP sent a total of eight athletes (five males and three females) accompanied by UTP Taekwondo Coach, Master David Ng Teik Seng.

6 July 2013

UTP Shares Joy With 170 Underprivileged Children

170 underprivileged children were treated to fun and games at the Sunway Lost World of Tambun Theme Park, Ipoh. They were all smiles when they visited the mini zoo and played games at the water park and rides.

The multiracial children were selected from four orphanages near Ipoh, namely Praise Home, Asrama Anak Yatim & Warga Miskin Budi Mulia Nurul Huda, Pusat Jagaan Anak-anak Yatim dan Miskin Nurul Iman and The Salvation Army Boys’ House. The event was organised by UTP Corporate Services Department, as part of UTP’s Corporate Social Responsibility (CSR) initiatives to engage with its surrounding community.

As part of UTP’s efforts to help promote healthy lifestyles to the future generations, each children was given a skipping rope before entering the water park. Together with UTP staff, they did a ten-minute skipping exercise which was equivalent to a 45-minute running workout. The skipping ropes were sponsored by Rotary Club of Kinta and MILO.

15 July 2013

UTP Pursues Corrosion Inhibitor Technology with D3 Chemicals Sdn Bhd

UTP and D3 Chemicals Sdn Bhd has signed an agreement to pursue collaboration in the field of corrosion inhibitor technology and other areas of mutual interest. For the signing, UTP was represented by its Vice Chancellor, YBhg Datuk Ir (Dr) Abdul Rahim Hj. Hashim, while D3 Chemicals Sdn Bhd. was represented by its Chairman, YBhg Dato’ Abu Talib Mohamed.

“This signing ceremony is another testament of the successful collaboration between the university and the industry. It has long been acknowledged that a university cannot be working separately from the industry but instead both parties should be collaborating in various aspects of teaching, learning, research and consultancy to bring tremendous benefits to both parties,” said YBhg Datuk Ir (Dr) Abdul Rahim.
20 August 2013

Global CCS Institute Hands Over Carbon Capture Storage Technology to UTP

Global Carbon Capture and Storage (CCS) Institute officially handed over the Carbon Capture Storage (CCS) Technology to Universiti Teknologi PETRONAS (UTP), at a special ceremony held at PETRONAS Twin Towers in Kuala Lumpur. UTP was represented by its Vice Chancellor Datuk Ir (Dr) Abdul Rahim Hj Hashim while Global CCS Institute was represented by its Capacity Development Manager, Ms. Alice Gibson.

The handover ceremony was a result of a licensing signing agreement between Global CCS Institute and UTP in May 2013. This ceremony marked a historic occasion for the university, as the CCS Technology received will be utilised for educational materials and support related to carbon capture and storage for the university staff and students, as well as for PETRONAS employees.

21 August 2013

SEDEX 31 sparks more inventions and innovation

UTP organised three simultaneous events; the Opening Ceremony of the 31st Science and Engineering Design Exhibition (SEDEX 31), MoU Signing Ceremony between UTP and Institution of Engineers Malaysia (IEM) and MoU Signing Ceremony between UTP and Anise Asia Cloud Sdn Bhd, as part of the University’s efforts to realise its vision in becoming a leader in Technology Education and Centre for Creativity and Innovation.

This year marked the 31st Science and Engineering Design Exhibition (SEDEX 31). It serves as a platform for UTP students and staff to showcase their creative and innovative ideas and designs to the campus community. Since it was first held in 1997, the event has successfully produced many inventions leading to new prototypes, research methodologies and approaches in various fields of expertise.

The opening ceremony of SEDEX31 was officiated by Ir. Choo Kok Beng, President of Institution of Engineers Malaysia (IEM).

31 July 2013

Tapping on Taiwan’s experience for Nanoelectronics Research

Universiti Teknologi PETRONAS (UTP) and National Tsing Hua University (NTHU), a renowned university in Asia, has recently signed an MoU to collaborate in the areas of nanoelectronics research.

The MoU was signed by UTP Vice Chancellor, YBhg Datuk Ir (Dr) Abdul Rahim Hashim and NTHU Vice President for Global Affairs, Prof. Wei-Chung Wang at PETRONAS Twin Towers, Kuala Lumpur. Also present as witnesses were Prof. Dr. Abdul Rashid Abdul Aziz, UTP Deputy Vice Chancellor, Research and Innovation, and NTHU Dean of Electrical Engineering and Computer Science, Professor Keh-Yung Cheng.

The signing of the MoU is another important milestone for UTP’s journey towards becoming an internationally recognised higher learning institution. UTP will work closely with NTHU to promote technical and engineering competencies in academic and research. This significant alliance will augur well towards the holistic development of both universities and further help UTP to remain competitive and relevant to the industry and nation at large.
7 September 2013

An MBA that drives global energy business – UTP welcomes its first MBA in Energy Management cohort

UTP received its first cohort of students who registered for the off-campus/September 2013 Master of Business Administration in Energy Management (MBA-EM) programme.

The September 2013 MBA-EM cohort sees 10 scholars, who come from a diverse professional background, enrolling in the programme. The average professional working experience among the scholars is 8 years, whose affiliations include companies from within and outside of PETRONAS group.

During the programme’s registration and induction session at PETRONAS Petroleum Resource Centre (PRC), UTP Dean of Centre for Graduate Studies, Associate Professor Dr Mohd Fadzil Hassan, representing Professor Ir Dr Ahmad Fadzil Mohamad Hani, UTP Deputy Vice Chancellor of Academic, described the MBA-EM programme as a niche MBA programme similar to that offered by Singapore’s Nanyang Technology University, but with a fraction of the fees which is to the benefit of students. The MBA-EM programme is the 7th postgraduate taught-course programme offered by UTP.

18 September 2013

‘Reflection’ – Honouring our Loyal Partners

UTP organised a special event, “Reflection: An Evening with UTP Loyal Partners”, to celebrate UTP-Industry partnership as well as to express the university’s gratitude and appreciation to its loyal partners for their contributions and support towards the growth of UTP.

In order to mark this occasion, special awards were presented to PETRONAS, Shell, Schlumberger WTA (M) Sdn Bhd, Mitsubishi Corporation, Technip Geoproduction (M) Sdn Bhd, Majlis Amanah Rakyat (MARA) and Jabatan Perkhidmatan Awam (JPA).

Since UTP’s establishment in 1997, many industry sectors have played significant roles contributing to the successes that the University has achieved so far. They have collaborated with UTP in many ways with greater engagement and working together in the true spirit of partnership.

18 September 2013

“Gatra Pertama” – A Gamelan Debut

UTP Gamelan Group, Sanggar Kirana, launched a gamelan album, entitled “Gatra Pertama” at a special event in Marriot Putrajaya. The launching marks a historic event for the university as it is the first ever gamelan album produced in Malaysia by university students.

The album was also launched to celebrate Sanggar Kirana’s accomplishments throughout its 11th year of establishment. The group has made the university proud by performing at national and international levels for the university, PETRONAS, Institutes of Higher Education Malaysia and state government occasions. Apart from that, UTP gamelan group has also participated in various music festivals, concerts and competitions, such as the International Javanese Gamelan Festival Bandung Indonesia, International Gamelan Festival Yogyakarta Indonesia, Festival Gamelan Malaysia Universiti Kebangsaan Malaysia, Tapestry of Colours at Dewan Filharmonik PETRONAS and National Malay Gamelan Competition.
21 – 22 September 2013
Young Programmers Camp 2013 (YPC13) Codes the Future

UTP organised the Young Programmers Camp 2013: Coding The Future (YPC2013) for students to further explore the world of technology in a more interactive, fun and upbeat way.

YPC13 is the university’s community-outreach project concentrating on secondary school students in UTP’s surrounding vicinity. For this project, the students were selected from SMK Ahmad Boestamam, Sitiawan and SMK Seri Iskandar, Bota. The two-day camp was organised by Syntech Organisation, UTP’s students IT club, and supported by Faculty of Science and Information Technology (FSIT) UTP.

The objectives of this programme are to stimulate students’ creativity and innovation in IT as well as to promote UTP academic programmes to secondary students, namely Information & Communication Technology and Business Information Systems. The students were taught internet programming, commonly known as website development.

1 – 6 October 2013
Swaying away with awards at the World Dance Festival

UTP Performing Arts Group (UPAG) danced to victory at the 10th Cheonan World Dance Festival at Cheonan Samgeori Park, Cheonan City, Korea when it won 3 awards namely First Prize Award for Cheonan Folk Dance Competition International Category, Best International Street Parade Award and Best Costume Award.

19 members from UTP Performing Arts Group (dancers) and 6 members from UTP Gamelan Group Sanggar Kirana (musicians) represented Malaysia for this festival. This was the third time UPAG represented Malaysia in this dance competition.

With the theme ‘Let’s Dance in Cheonan’, the event was organised by Cheonan-SI, Cheonan Foundation for Arts and Culture, Ministry of Culture, Sports and Tourism, Ministry of Foreign & Trade of South Korea and FIDAF.

The main aim of this festival is to encourage and educate the international community to appreciate international folk dance cultures. It was participated by professional and national dance groups from 19 countries.

12 October 2013
Yayasan UTP raised RM 500,000 at charity Golf 2013

Yayasan UTP raised nearly RM500,000 at the YUTP Charity Golf 2013 held at Kelab Golf Sultan Abdul Aziz Shah (KGSAAS), Shah Alam Selangor.

The event was organised in conjunction with UTP 13th Convocation ceremony and graced by the presence of UTP Pro-Chancellor and PETRONAS Chairman, YBhg Tan Sri Mohd Sidek Hassan, UTP Vice Chancellor, Datuk Ir (Dr) Abdul Rahim Hashim and PETRONAS top management personnel.

Some 80 golfers from the industry such as Exxon Mobil Exploration and Production Malaysia Inc., Dialog Group Berhad, Deleum Berhad, Halliburton, Baker Hughes and Bredero Shaw (M) Sdn Bhd participated in the event.

The charity golf event was held to raise funds for Yayasan UTP Bursary. The fund will then be awarded to deserving students to support their studies at the university. Currently, 40% of UTP undergraduate students depend upon loans from various agencies for their studies and expenses at UTP. Yayasan UTP has until now, awarded bursaries amounting to RM600,000 to an average of 100 students annually.
23 October – 3 November 2013

**International invention organisations recognised UTP’s talents and innovation**

At the British Invention Show (BIS), United Kingdom, UTP won all awards, with 8 gold, 2 silver medals and 2 Special Awards.

Associate Professor (AP) Dr Faiz Ahmad, Mohd Azman Zakariya, Associate Professor Dr Ahmad Mustafa Hashim, Associate Professor Dr Dayang Rohaya Awang Rambli and Associate Professor Dr Nasir Shafiq won eight gold medals. Mohd Azman also won a special double gold award through his invention (ICU-V) invention.

BIS is a platform for innovators to develop new business opportunities by bringing together innovation and enterprise, investors and inventors, designers and manufacturers alongside associated services. For 2013, it received participation from 15 countries.

UTP’s participation in another similar invention show the International Trade Fair, Ideas, Inventions and New Products Exhibition (IENA 2013) in Nuremberg, Germany also resulted in tremendous success when it won 1 gold, 4 silver and 3 bronze medals.

27 October 2013

**13th Convocation Ceremony**

YBhg Tan Sri Sidek Hassan, Pro Chancellor of Universiti Teknologi PETRONAS (UTP) and Chairman of PETRONAS presented Alumni Award for Best Research to Muhammad Farooq from Chemical Engineering Programme for Doctor of Philosophy category and to Jawad Humayun from Electrical and Electronic Engineering for Master’s category, at UTP’s 13th Convocation. Alumni contributed the awards in support and recognition for creativity and innovation amongst the scholars. At the same ceremony, YBhg Tan Sri Sidek also conferred doctoral, masters and bachelors degrees to 1147 students.


16 – 17 November 2013

**UTP organised the Regional Conference on Student Activism (RECONSA 2013)**

UTP organised the Regional Conference on Student Activism (RECONSA 2013).

Themed, Embracing Volunteerism, this conference was held with the objectives of:

- Enriching and creating a conscious society that practices volunteerism in a right and comprehensive manner.
- Reinforcing the concept of well-rounded students who excel in academics while actively participating in voluntary activities and contributing to society
- Providing a platform for students to think critically and creatively in presenting their ideas and interacting with others from different backgrounds.

The two keynote speakers, Hasanain Juaini, a known figure in volunteerism field and Edmond Yap, the Founder of EduNation and eight presenters were able to provide interesting insights to all the 200 students from various universities who attended this 2-day conference.
17 November 2013

**Eduspec Junior Robothon National Finals**

UTP hosted the Eduspec Junior Robothon National Finals. The theme of the 8th season robotics game was “Better City Better Life”. 600 students from 40 different schools from all over Malaysia participated in this event.

This competition is one of the largest and fastest growing educational and competitive robotics programmes in Malaysia. Participants performed with outstanding efforts as they competed aggressively against opposing teams. Each team was given the same amount of time to complete a certain task. The demands for students to collaborate as they challenged against other schools and tested their critical thinking skills were essential for this competition.

“We realise the importance of IT literacy for 21st Century Learners, because IT literacy facilitates learning. Thus, it is important to introduce a programme that has industrial relevance, a well-planned syllabus with a good blend of content, pedagogical and technical knowledge.” Said Lim En Hong, group CEO of Eduspec Holdings Bhd.

18 – 19 November 2013

**Ministry of Education completed auditing for Research University**

UTP underwent the final process of the Research University auditing. The auditors were from the Ministry of Education.

The journey towards attaining Research University (RU) status requires collaborative efforts and strong teamwork. Prior to the site audit, UTP has carried out its own internal audit process which had shown a good example of teamwork and amalgamation of efforts from various departments.

Panel of Assessors for the Research University evaluation team:

1. YBhg Dato’ Prof Emeritus Dr Muhamad bin Yahaya
2. YBhg Dato’ Prof Dr Mohamed Isa bin Abdul Majid
3. YBhg Dato’ Prof Emeritus Dr Md Ikram bin Mohd Said
4. YBhg Prof Dr Awalludin bin Mohamed Shaharoun
5. YBhg Prof Dr Mohd Adzir bin Mahdi
6. YBhg Prof Ir Megat Johari bin Megat Mohd Noor

21 November 2013

**Promoting Sustainable Forest Management with FRIM**

UTP signed a memorandum of understanding (MoU) with Forest Research Institute Malaysia (FRIM) to collaborate in promoting sustainable forest management (SFM) and optimal use of forest resources through the application of knowledge and technology, generated through scientific research and development activities.

The signing ceremony was formalised between UTP Vice Chancellor, Datuk Ir (Dr) Abdul Rahim Hj. Hashim and FRIM Director General, Dato’ Dr Abd Latif Mohmod. Also present as witnesses were UTP Chief Financial Officer, En. Hasbullah Hj Ihsan and FRIM Senior Research Officer, Forest Biodiversity Division, Dr Lillian Chua.

The signing of this MoU was another important milestone for UTP’s journey towards becoming a recognised higher learning institution. The significant alliance with FRIM augured well towards the holistic development of both parties and further helped UTP to remain relevant to the industry and nation at large.
28 November – 1 December 2013

Champion for the unprecedented 4th time!

UTP emerged as the overall champion in the International Student Sports Carnival 2013 (ISSC) for an unprecedented fourth time in a row after winning four gold, four silver and three bronze medals.

The gold medals came from Indoor Rowing Single (Female), Indoor Rowing Relay (Female), Road Relay (Male) and Volleyball (Male). Volleyball (Female), Road Relay (Female), Badminton (Mixed), Indoor Rowing Double (Male), Indoor Rowing Double (Female), Netball and Basketball (Female) contributed silver and bronze medals.

This tournament was held at Universiti Tenaga Nasional (UNITEN) and organised by the Ministry of Education Malaysia and Universiti Tenaga Nasional (UNITEN). Its main objective is to inculcate healthy and productive integration amongst international students from various ethnicities and nationalities, as well as with the local students of public and private higher learning institutions. 1200 students from 22 public and private higher learning institutions participated and competed in 19 games.

4 December 2013

Menggapai Impian reached to 60 Orphans

As a responsible corporate citizen that strives to give back and make a meaningful difference in the lives of others, UTP reached out to 60 less underprivileged children in Ipoh, Perak through its Corporate Social Responsibility (CSR) programme, Menggapai Impian.

Now in its seventh year, Menggapai Impian is the university’s signature annual CSR programme with the aim of providing the underprivileged children (primary and secondary students) a head start in their education and better learning experience.

With this CSR, UTP staff volunteer to sponsor a minimum of RM150 for one child. Each child will be given basic school necessities in the form of school uniforms, bags, shoes and stationery for the new school term.

For this programme, children are selected from different races of different orphanages from various districts in Perak. This year, 60 children were selected from three orphanages namely Pertubuhan Kebajikan Kasih Nurul Iman Negeri Perak, Pertubuhan Kebajikan Harapan Baru, Ipoh and Pertubuhan Kebajikan Anak Yatim Anugerah Istimewa, Ipoh.

7 December 2013

UTP brings relief to flood victims

UTP community including UTP Alumni showed their caring sides when they donated nearly RM7,000 to the flood victims in the East Coast of Malaysia. The donated funds were then used to purchase essential items for the flood victims such as food, milk, mats, baby mattresses, toiletries and hand sanitisers.

Apart from this, there were donations in-kind from UTP staff in the form of baby milk, baby diapers, toiletries, medical supplies, towels, new and used clothes, blankets and shoes/sandals. Used items were sorted and only those that were in good condition were selected. Some of UTP’s staff also bought these used clothes and the proceeds were then used to purchase food items.

The donated goods for the flood victims were delivered and unloaded at USJ 14, Selangor on 7 December 2013. They were then transported on the same day by lorries to the flood victims at four relief centres in Kuantan, namely Sekolah Kebangsaan Batu Tiga, Sekolah Kebangsaan Sungai Isap Murni, Kampung Bugis Beserah and Kampung Permatang Badak.

UTP’s noble cause was also featured in TV Al-Hijrah and TV9.
18 December 2013

UTP – Media Bowling Meet 2013

With 1471 pin falls, Harian Metro emerged as the winner in the UTP-Media Bowling Meet 2013 held at Ampang Superbowl, Ipoh recently. First runner-up was BERNAMA with 1363 pin falls while second runner-up went to Utusan Malaysia with 1319 pin falls.

Organised by UTP Corporate Services Department, this second bowling meet saw the participation of 14 media teams from Ipoh, Perak Branch and two teams from UTP. The game was conducted in a three-game series format with each team fielding four players.

The event is organised as part of the university’s efforts to strengthen and maintain good relationship with all media personnel. In addition, it created a platform for better social interaction between UTP and the media in a fun and an informal environment.

The winning teams received prizes from En. Hasbullah Haji Ihsan, UTP’s Chief Financial Officer. As champions, Harian Metro team walked away with a challenge trophy, individual trophies, hamper and cash prizes. As the runners-up, BERNAMA and Utusan.
Academic Overview

The University reported a commendable performance this financial year due, in no small measure, to its academic programmes, student development programmes, academic faculty and student strength.

In FY2013, Universiti Teknologi PETRONAS introduced the MBA in Energy Management programme in addition to its currently available programmes ranging from Foundation Studies up to Doctoral programmes. New programmes that are being developed at the Bachelor level are BSc in Applied Physics, BSc in Applied Chemistry, and at the Masters level, MSc in Offshore Engineering, MSc in Drilling Engineering and MSc in Process Safety.

These current and new programmes with research active academics reinforced UTP’s aspiration of being a recognised partner of choice for the Oil and Gas industry. Existing programmes are constantly reviewed to meet industry expectations and ensure relevance to stakeholders. The active participation by the Industry Advisory Panels and Adjunct Lecturers have added immeasurable value to the curriculum content, learning experience and assessment aspects. In 2013, 92 Adjunct Lecturers successfully conducted a total 86 lectures at UTP.

UTP was established with the intention of meeting professional requirements in Oil and Gas industry comprising of PETRONAS and other related national and international corporations. After more than 16 years since its inception, the University has been successful in meeting the demands of the industry. Nearly 80% of the graduates entered Oil and Gas industry with renowned brands like Shell, Exxon-Mobil, Conoco-Phillips, Schlumberger, Halliburton and Baker Hughes apart from PETRONAS. Others joined related engineering and technology giants like HUAWEI, LG, Motorola, PROTON and INTEL. Malaysia’s automotive industry players like PROTON for example, preferred graduates from UTP. Many of the University’s graduates have steadily climbed the corporate ladder, worldwide. Achievements as such are results of the University’s strategic planning and execution especially in its 7 months Structured Industrial Internship Programme, supported by more than 400 local and international industrial learning partners. A total of 96 students obtained internship placements overseas such as United Kingdom, Australia, South Africa, France, Kingdom of Saudi Arabia, Egypt and United States of America.

UTP students’ potential and performance are also supported by the University’s Student Exchange and Mobility Programme. The programme offers boundless opportunities to incorporate international dimension to their University’s training. In 2013, a total of 152 students were selected to join the Programme. 55 were selected to join the University for a short stint while 95 were selected to go abroad. Among the universities involved were Graz University of Technology, Austria; University of Burgundy, France; Lehigh University, United States; Indian Institute of Technology, Madras and many others.

As for the academic strength, 61% of the academic faculty members have PhD qualifications with 23% international faculty for global input and experience.

Student enrollment has been stable even though admission is stringent. A candidate will be evaluated on his/her display of confidence, strength, interest and skills, in addition to academic
Programmes

The following is a listing of the University’s academic programmes for undergraduate and postgraduate including a new postgraduate programme introduced this year.

**Foundation Programmes**
- Engineering
- Technology

**Bachelor of Engineering (Honours)**
- Chemical
- Civil
- Electrical and Electronic
- Mechanical
- Petroleum

**Bachelor of Technology (Honours)**
- Business Information Systems
- Information and Communication Technology
- Petroleum Geoscience

**Master by Coursework and Dissertation**
- Advanced Process Control
- Asset Management and Maintenance
- Electronic Systems Engineering
- Petroleum Engineering
- Petroleum Geoscience
- Process Integration

**Master/PhD by Research**
- Civil Engineering
- Chemical Engineering
- Electrical and Electronic Engineering
- Mechanical Engineering
- Petroleum Engineering
- Petroleum Geoscience

**New Programme**
Masters of Business Administration (MBA) in Energy Management
Research & Development

Research & Development is one of the core pillars in UTP Corporate Agenda. The strength of the university’s R&D is in applied research with strong linkages to industries. The University’s research direction has been guided by the 30-year aspiration roadmap. The aspiration includes making UTP the University of choice in the field of engineering and technology, particularly in the oil and gas industry. Thus far, UTP’s research and innovation are mission-oriented based on national needs, global trends and industries’ requirements.

Mission Oriented Researches (MOR) and R&D Centres to drive Research & Development

The University has thus far been strategic in its research and innovation efforts. Participation at conventions, exhibitions and competitions provide the platform to showcase creativity and talents in the forms of products, services and expertise. The competitions also present windows of opportunities for venture capitalists, investors and industry players to review and evaluate the potential of the University’s products and services to business and operations for commercialisation. Participation at invention showcase events, also avails opportunities for the Academic members to disclose the invention. The University targets 30 to 50 disclosures a year and filing for patent will be done upon recommendation of the Innovation Committee.

Presently with UTP being among the top seven research-focused higher learning institutions in the country and being the only private university to have achieved MyRA 5-star rating by the Malaysian Research Assessment Instrument, the University now aims at being recognised globally as the partner of choice for the industry and respected as an influential member of the scientific community.

Moving forward, UTP is strengthening its University-Industry collaboration through Joint Industry Project (JIP) and development of UTP R&D Park.
Exhibitions and Competitions

24th International Invention, Innovation & Technology Exhibition (ITEX 2013)
KL Convention Centre, Kuala Lumpur
9 – 11 May 2013

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<th>No</th>
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<th>Invention Title</th>
<th>Medal</th>
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<td>1</td>
<td>Prof Dr Abdul Rashid b Abdul Aziz</td>
<td>Free Piston Linear Generator Fuelled With Waste Gas From Oil/Gas Reservoir</td>
<td>GOLD AWARD</td>
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<td>2</td>
<td>Prof Ir Dr Ahmad Fadzil Mohamad Hani</td>
<td>Melcare: Skin Melanin Pigment Analyzer For Dermatology Care</td>
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<td>3</td>
<td>Dr Wong Peng Wen</td>
<td>Reconfigurable u-wit</td>
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<td>4</td>
<td>Dr Wong Peng Wen</td>
<td>Electronically reconfigurable microwave bandpass filter</td>
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<td>5</td>
<td>Assoc Prof Dr Mohamed Hasnain Isa</td>
<td>Thermal Degradation Process For Organic (T-Depho)</td>
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<td>6</td>
<td>Assoc Prof Dr Aamir Saeed Malik</td>
<td>Vegetation Encroachment Monitoring for Transmission Lines</td>
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<td>Assoc Prof Ahmad Mustafa Hashim</td>
<td>Interlocking Concrete Unit-V (ICU-V)</td>
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<td>Assoc Prof Dr Hussain Hammud Ja’afer Al-Kayiem</td>
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<td>9</td>
<td>Assoc Prof Dr Hussain Hammud Ja’afer Al-Kayiem</td>
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<td>Assoc Prof Dr Irraivan Elamvazuthi</td>
<td>Artificial Intelligence Based Tool For Optimization of MPPT of Photovoltaic System</td>
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<td>Azry Borhan</td>
<td>Gel Based Vibration Energy Generator</td>
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<td>12</td>
<td>Assoc Prof Dr Mokhtar Awang</td>
<td>Engineered Mangrove Forest Re-Planting Strategy for Effective Surface Wave Attenuation</td>
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<td>Assoc Prof Dr Anita Ramli</td>
<td>A Green Heterogeneous Catalyst From Indigeneous Raw Material For Biodiesel Production</td>
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<td>14</td>
<td>Assoc Prof Dr Anita Ramli</td>
<td>One Step Esterification-Transesterification of High Free Fatty Acid Oil to Biodiesel using Bifunction Solid Catalyst</td>
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<td>15</td>
<td>Assoc Prof Dr Faiz Ahmad</td>
<td>A New Hybrid Fiber Composite for Drain Grating Cover</td>
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<td>16</td>
<td>Assoc Prof Dr Faiz Ahmad</td>
<td>Superconductor Nano Composite Heat Dissipater</td>
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<td>17</td>
<td>Dr Amirhossein Malakahmad</td>
<td>AOPSBR for Full Treatment of Refinery Waste Water</td>
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<td>18</td>
<td>Assoc Prof Dr Fakhruldin Mohd Hashim</td>
<td>Intelligent Pipeline Inspection Gauge (i-PIG) for Deep Water Pipelines Applications</td>
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<td>Assoc Prof Dr Nasir Shafiq</td>
<td>NANO-SIO2@SBA</td>
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<td>Assoc Prof Dr Suzana Yusup/ Mohd Zamri Abdullah</td>
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<td>Assoc Prof Ir Dr M Shahir Liew</td>
<td>Blue Hive Frequency Domain Analaysis Package</td>
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<td>Dr Dennis Ling Chuan Ching</td>
<td>Tsunami Early Warnings 2.0</td>
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<td>23</td>
<td>Assoc Prof Dr Fawznizu Azmadi Hussin</td>
<td>Android Device Based Diabetic Retinopathy Grading System</td>
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<td>Dr Nejatollah Rahmanian</td>
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<td>Single Trial Subspace-based System for ERP Extraction</td>
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<td>26</td>
<td>Prof Dr Yoshimitsu Uemura</td>
<td>In Situ Upgrading of Pyrolysis Oil From Biomass using Fixed-Bed Pyrolysis</td>
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<td>27</td>
<td>Prof Dr Yoshimitsu Uemura</td>
<td>Hydrophobic Silica Membrane System For High Temperature Separation Of H2/CO2 Mixture</td>
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<td>28</td>
<td>Assoc Prof Ir Dr Shaharin Anwar Sulaiman</td>
<td>Multistage Swirling Fluidized Bed Reactor</td>
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<td>29</td>
<td>Mohd Azman b Zakariya</td>
<td>Cylindrical Dielectric Resonator Antenna Array For IEEE 802.11a WiFi Application</td>
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<td>30</td>
<td>Mohd Azman b Zakariya</td>
<td>Aperture Couple Dielectric Resonator Antenna with Curve Reflector for IEEE 802.11a WiFi Application</td>
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<td>31</td>
<td>Prof Norani Muti Mohamed</td>
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<td>33</td>
<td>Assoc Prof Dr Shamsul Rahman M Kutty</td>
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**London, United Kingdom**
**23 October – 3 November 2013**

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## International Trade Fair, Ideas, Inventions and New Products Exhibition (iENA 2013)
**Germany**
**31 October – 3 November 2013**

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<td>Development of FGRU Reliability Availability and Maintainability (RAM) model for PETRONAS Penapisan Melaka Sdn Bhd</td>
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<td>SKG16.3: Consequence Modelling &amp; QRA, Level 3</td>
<td>Institut Teknologi Petroleum PETRONAS (INSTEP)</td>
<td>Prof Dr Azmi M Shariff</td>
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<td>35</td>
<td>An Assessment Study on Green IT Related R&amp;D Activities and Set-up in Malaysia No.4, Wireless Sensing System Research</td>
<td>Hitachi Asia (M) Sdn Bhd</td>
<td>Dr Low Tan Jung &amp; Dr Yong Suet Peng</td>
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<td>Seismic Reflection Survey</td>
<td>Halliburton Technical Excellence Centre</td>
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<td>Training for PETRONAS Carigali (Turkmenistan) Sdn Bhd</td>
<td>PETRONAS Carigali (Turkmenistan) Sdn Bhd</td>
<td>Assoc Prof Dr Eswaran A/L A R Padmanabhan &amp; Prof Dr Mariyamn Awang</td>
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<td>A Short Course on Fire Engineering and Fire Safety and Protection Engineering</td>
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<td>Dr M Shakir Nasif</td>
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<td>Development of Corrosion Detection Underneath Composite Wrapping Project</td>
<td>Innovative Oilfield Services Sdn Bhd</td>
<td>Assoc Prof Ir Dr Mokhtar Che Ismail (Project Leader), Dr Zainal Arif Burhanudin</td>
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<td>Provision of Metocean Software Package</td>
<td>PETRONAS Carigali Sdn Bhd</td>
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<td>Institut Teknologi Petroleum PETRONAS (INSTEP)</td>
<td>Dr Chandra Mohan</td>
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<td>44</td>
<td>Project Management in Oil &amp; Gas Industry</td>
<td>Institut Teknologi Petroleum PETRONAS (INSTEP)</td>
<td>Dr Masdi Muhammad (Project Leader), Dr Ainul Akmar Bt Mokhtar, Dr Hilmi Hussin</td>
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<td>Corrosion Test – FRGS PSAS</td>
<td>Politeknik Sultan Azlan Shah</td>
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<td>Seakeeping Test (Heaving &amp; Pitching Motion Prediction)</td>
<td>UniKL MIMET</td>
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<td>PETRONAS Carigali Sdn Bhd</td>
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<td>Pre-Selection Development Programme for Selection of PETRONAS Service Station Dealers (Train-of-Trainers) PSP-TOT</td>
<td>PETRONAS Dagangan Berhad</td>
<td>Am Zairi Amar, Azamudin Badri @ Harun, M Radzi Zainol, Zulqarnain Abu Bakar &amp; Zulilla Hussian Shaa</td>
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<td>A Short Course on ANSYS-Mechanical</td>
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<td>Assoc Prof Dr Mokhtar Awang</td>
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<td>Introduction to Cloud Computing with Open Nebula</td>
<td>Open to public</td>
<td>Dr M Nordin Zakaria</td>
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<td>Development of Two Mobile Augmented Reality Demo Applications</td>
<td>Toy Storm Studio</td>
<td>Dr Dayang Rohaya Awang Rambli</td>
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<td>Dr Masdi Muhammad &amp; Dr Ainul Akmar</td>
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<td>Energy Auditing for Latexx Manufacturers Sdn Bhd</td>
<td>Latexx Manufacturing Sdn Bhd</td>
<td>Ir Dr Perumal A/L Nallagownden</td>
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<td>Intelligent techniques for Rehabilitation Robotics</td>
<td>Open to public</td>
<td>Assoc Prof Dr Irraivan Elamvazuth</td>
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<td>VLSI System Modelling and Testing</td>
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<td>Assoc Prof Dr Fawnzizu Azmadi, Dr Likun Xia</td>
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<td>Experimental Investigation on Tsunami Acting on Bridges</td>
<td>Universiti Malaya</td>
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## Research & Development

### Research Project

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<td>An Investigation into the Thermodynamics of Exergy Lost Minimization in Separation Processes</td>
<td>Assoc Prof Dr Shuhaimi Mahadzir</td>
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<td>Vegetation Encroachment Monitoring using Satellite Stereo for Power Lines in Malaysia</td>
<td>Assoc Prof Dr Aamir Saeed Malik</td>
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<td>3</td>
<td>An Improved Software Development Process for Small and Medium Software Development Enterprises</td>
<td>Assoc Prof Dr M Fadzil Hassan</td>
<td>King Faisal University, Saudi Arabia</td>
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<td>4</td>
<td>Intelligent Cloud-Based Collaborative Multi-Modal Disease Diagnostic System</td>
<td>Assoc Prof Dr M Fadzil Hassan</td>
<td>King Faisal University, Saudi Arabia</td>
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<td>5</td>
<td>Design of EEG and Event Related Potential (ERP) Experiments using E-Prime Software for Static Audio Visual Educational Content</td>
<td>Assoc Prof Dr Aamir Saeed Malik</td>
<td>King Saud University, Saudi Arabia</td>
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<td>Identification of Features and Classification for EEG and ERP Signal Analysis</td>
<td>Dr Ibrahima Faye</td>
<td>King Saud University, Saudi Arabia</td>
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<td>Kinetic Study on Photooxidative Deep Desulfurization of Diesel Under Visible Light using Fe-and N-Modified TiO2 Photocatalyst</td>
<td>Associate Prof Dr Chong Fai Kait</td>
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<td>8</td>
<td>Bond-Slip Relationship of CFRP Plated Steel Member Subjected to Fatigue Loading</td>
<td>Dr Ibrisam Akbar</td>
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<td>Modeling and Optimization of a MEMS Resonator for Monitoring Biomarker Concentration via Exhaled Breath</td>
<td>Assoc Prof Dr John Ojur Dennis</td>
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<td>Theoretical Modeling and Synthesis of Compact UWB Filter Topology Based on Multi-Resonances Resonator (MRR)</td>
<td>Dr Wong Peng Wen</td>
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<td>Fundamental Analysis on Behaviour of Stewart Platform Actuated by Shape Memory Alloy (SMA) Wires for Rehabilitation Activities</td>
<td>Prof Dr Nagarajan Thirumalaiswami</td>
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<td>Assoc Prof Dr Mokhtar Awang</td>
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<td>Modeling of Slider and Journal Bearings with Partially Textured Slip Surface Lubricated with Non-Newtonian Fluids</td>
<td>Assoc Prof Dr Tadimalia VVLM Rao</td>
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<td>Expanded Austenite Layer on SS 316 L Resulting from Low Temperature Hybrid Thermochemical Treatments</td>
<td>Assoc Prof Dr Patthi Hussain</td>
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<td>To Investigate the Mechanism of Oil/Water Separation Assisted by Novel Natural Sorbents</td>
<td>Assoc Prof Dr Nasiman Sapari</td>
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<td>How Parent Carninogens in Urban Streams Convert to Product Compounds</td>
<td>Dr Amirhossein Malakahmad</td>
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**Note:**
- **ERGS** — Exploratory Research Grant Scheme
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<td>Assoc Prof Dr Suziah Sulaiman</td>
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<td>Encapsulation of Water Leach Purification (WLP) Product in a Geopolymer Matrix</td>
<td>Prof Dr Ir M Fadhil Nuruddin</td>
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<td>Assoc Prof Dr Suzana Yusup</td>
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<td>Prof Dr Deva Prasad Ghosh</td>
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<td>Dr Sarat Chandra Dass</td>
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<td>Development of Vehicle Control and Guidance System with 6 DOF Trajectory Simulation for Autonomous Underwater Vehicle (AUV)</td>
<td>Prof Dr Nagarajan Thirumalaiswami</td>
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<td>Predictive Model using Soft Computing Techniques on Malay Dataset for Counter-Terrorism</td>
<td>Norshuhani Zamin</td>
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<td>Biodiesel Production by Transesterification Technique using New Feedstock Castor Bean Species</td>
<td>Prof Dr Yoshimitsu Uemura</td>
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<td>Model-Based Bending Fatigue and Service Life Prediction for Parallel Axes Gear in Misalignment Dynamics Condition</td>
<td>Assoc Prof Dr Mokhtar Awang</td>
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<td>Design, Development and Analysis of an Experimental Model Single Curved-Cylinder Novel Engine which Operates on Diesel</td>
<td>Assoc Prof Dr Ir Masri Baharom</td>
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<td>Coupling of Deepwater Marine Riser Induced Vibration to Drillstring Vibration</td>
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<td>Investigation of Digital Microfluids Biochips Testing by Dynamic Programming Model</td>
<td>Dr Noohul Basheer Zain Ali</td>
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<td>Assoc Prof Dr Tang Tong Boon</td>
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<td>Performance, Evaluation and Modeling of the Micro-Composite Interlayer for the Joining of Sialon to Stainless Steel</td>
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<td>A One-Layer Approach for Integration Real-Time Optimization and Process Control Level in a Reaction-Separation System</td>
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<td>Effect of Functionalized SAPO-34 on the Performance of Based Ionic Liquid Mixed Matrix Membrane (B-IL3M) for CO₂ Separation</td>
<td>Assoc Prof Dr Hilmi Mukhtar</td>
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<td>Solar-Hydrogen Production System from Sea Water using Metal/SR2TA207–XNX Photocatalyst and Sunlight</td>
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<td>Dr Maher Assad</td>
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<td>An Exploratory Investigation to Determine the Applicability of Game Theory in Ant Colony to Combat Botnet in Big Data Concept of Cloud Computing</td>
<td>Assoc Prof Dr Halabi Hasbullah</td>
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<td>Concurrent Service Level Agreement Negotiation in Cloud-Based Systems</td>
<td>Assoc Prof Dr M Fadzil Hassan</td>
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<td>Stakeholder Communication, Socio-Economic &amp; Financial Performance: Adoption on Innovations by Paddy Farmers in Perak</td>
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<td>Heat Recovery System for Enhancement of Small-Scale Downdraft Gasifier Efficiency</td>
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### Research & Development | Research Project

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56 | Compact Extended Aeration Reactor (CEAR), An Integrated Wastewater Treatment for Biological Treatment of Wastewater | Assoc Prof Dr Shamsul Rahman M Kutty | PRGS
57 | High-Speed-Input-Output (HSIO) Test Coverage Metrics for System on a Chip (SOC) | Assoc Prof Dr Nor Hisham Hamid | CREST
58 | Signal & Image Processing Research | Prof Dr Ir Ahmad Fadzil Mohamad Hani | SGGSIET
59 | Smart Integrated Low Carbon Infrastructure (Smart i-LOCI) | Prof Dr Khairun Azizi Azizli | MyRA
60 | CO₂ Rich Natural Gas Value Chain Programme | Prof Dr Azmi Mohd Shariff | MyRA
61 | The Behaviour of Various Types of Concrete in High Intensify Fires and Evaluation of Thermal Radiation Models for Fire Spread Between Buildings | Dr Mohammad Shakir Nasif | Promat (M) Sdn Bhd
62 | Biomedical and Healthcare Technology | Prof Dr Ir Ahmad Fadzil Mohamad Hani | Hitachi
63 | Image-Based Numerical Modeling for Predicting the Risk of Cerebral Artery Rupture due to Aneurysm | Dr Anis Suhaila Shuib | EsScience
64 | Development of Organizational and Management Model for Plant Turnaround Maintenance in Malaysian Process-Based Industries | Assoc Prof Dr Zulkipli Ghazali | EsScience
65 | Received Signal Strength (RSS) Model for Device-Free Localization Technique | Assoc Prof Dr Mohd Yunus Nayan | FRGS
66 | A Virtual Reality Interaction Model for Interactive Genetic Algorithm | Dr Mohamed Nordin Bin Zakaria | FRGS
67 | Synthesis of Novel Eutectic and Task-Specific Ionic Liquids for Enhanced Oil Recovery (EOR) of heavy oil in extreme reservoir conditions | Dr Rashidah Binti Mohd Pilus | FRGS
68 | Bimetallic Cu/ZrO₂ Zeolitic Imidazolate Frameworks (Cu-ZrO₂/ZIF) as Highly Efficient Photocatalysts for Reduction of CO₂ into Methanol under Visible Light Irradiation | Dr Maizatul Shima Binti Shaharun | FRGS
69 | Optimization of Ferromagnetic Nanocomposites as Electromagnetic Absorbing Material for Enhanced Oil Recovery Application | Dr Hassan Soleimani | FRGS
70 | Development of Metal Oxide Nanoparticles for Optimal Nanofluid Viscosity and Interfacial Tension for Enhanced Oil Recovery | Assoc Prof Dr Hasnah Binti Mohd Zaid | FRGS
71 | A Newton-Raphson Procedure for Estimating Variable Force of Infection in Disease Dynamical Systems | Assoc Prof Dr Sarat Chandra Dass | FRGS
72 | Study on the Modulated Electrical Properties of N-doped Graphene Synthesized by Chemical Vapor Deposition for Photoelectrode Application | Assoc Prof Dr Balbir Singh A/L Mahinder Singh | FRGS
73 | Super-Exchange Interactions and Spin Alignment in Rare Earth Substituted Ferrite | Dr Beh Hoe Guan | FRGS
74 | The Moderating Effect of Contextual Variables on the Strategic Management Accounting Relationship to Organisational Effectiveness | Hezlina Binti Mohd Hashim | FRGS

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<td>Reliability Monitoring for Gas Turbines</td>
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<td>Biomedical Engineering Study of Brain Neuronal Mechanisms using Signal</td>
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<td>Analysis of Magnetic Resonance Spectroscopy</td>
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<td>Gaussian Kernel Construction with Manifold Learning for System Identification</td>
<td>Assoc Prof Dr Vijanth Sagayan Asirvadam</td>
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<td>Formulation of a Mathematical Model for 3-D Reconstruction of Ultrasound</td>
<td>Assoc Prof Dr Irraivan A/L Elamvazuthi</td>
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<td>Mathematical Analysis of Fractal Antenna using Multiport Network Approach</td>
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<td>82</td>
<td>Investigating Nonlinear Deformation Model for Offshore Platform based on</td>
<td>Assoc Prof Dr Abd Nasir Bin Matori</td>
<td>FRGS</td>
</tr>
<tr>
<td></td>
<td>Persistent Scatterer Interferometry (PSI) Technique</td>
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<tr>
<td>83</td>
<td>Removal Mechanism of Heavy Metal Toxicity Impacts using Microwave Incinerated</td>
<td>Assoc Prof Dr Shamsul Rahman Bin Mohamed</td>
<td>FRGS</td>
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<td></td>
<td>Sugar Cane Baggase through Physical and Biological Treatment Systems</td>
<td>Kutty</td>
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<tr>
<td>84</td>
<td>Basic Study on Soil Pore Water Pressure Variations Response to Rainfall</td>
<td>Dr Muhammad Raza Ul Mustafa</td>
<td>FRGS</td>
</tr>
<tr>
<td>85</td>
<td>Fundamental Study on Synthesis and Characterization of Inorganic Nano–Filler</td>
<td>Assoc Prof Dr Faiz Ahmad</td>
<td>FRGS</td>
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<tr>
<td></td>
<td>Reinforced Intumescent Fire Retardant Coating for Structural Application</td>
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<tr>
<td>86</td>
<td>New Route of Performing Siliconizing Process on Mild Steel Substrate by</td>
<td>Assoc Prof Dr Othman Bin Mamat</td>
<td>FRGS</td>
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<td></td>
<td>using Local Silica Sand</td>
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<td>87</td>
<td>Fatigue Analysis of Basalt Carbon Hybrid Composites for Wind Turbine Rotor</td>
<td>Dr Saravanan A/L Karuppanan</td>
<td>FRGS</td>
</tr>
<tr>
<td></td>
<td>Blades</td>
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<tr>
<td>88</td>
<td>High Pressure Solubility and Kinetic Study of High CO₂, Content Methane</td>
<td>Prof Dr Azmi Bin Mohd Shariff</td>
<td>FRGS</td>
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<tr>
<td></td>
<td>Mixture in Novel Aqueous Sterically Hindered Amino Acid (SHAA)</td>
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<tr>
<td>89</td>
<td>Fundamental Study on Torrefaction of Empty Fruit Bunches in the Presence of</td>
<td>Prof Dr Yoshimitsu Uemura</td>
<td>FRGS</td>
</tr>
<tr>
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<td>Oxygen and Carbon Dioxide</td>
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<tr>
<td>90</td>
<td>Fundamental and Experimental Study on Phase Change Kinetics of Geopolymer</td>
<td>Dr Lukman Bin Ismail</td>
<td>FRGS</td>
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<td></td>
<td>Formation</td>
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<tr>
<td>91</td>
<td>A Fundamental Study of Effect of Dimethylformamide (DMF) Solvent on</td>
<td>Assoc Prof Dr Hilmi Bin Mukhtar</td>
<td>FRGS</td>
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<td></td>
<td>Morphology of Polyvinyl Acetate (PVAc)/Polyethersulfone (PES) Novel Blend</td>
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<td></td>
<td>Membrane</td>
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</tbody>
</table>

Note:
ERGS – Exploratory Research Grant Scheme
PRGS – Prototype Research Grant Scheme
FRGS – Fundamental Research Grant Scheme
LRGS – Long Term Research Grant Scheme
<table>
<thead>
<tr>
<th>No</th>
<th>Project Title</th>
<th>Principal Investigator</th>
<th>Funding Agency</th>
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</thead>
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<tr>
<td>92</td>
<td>Interphase Behaviour of Biopolymer Nanocomposite Material Impacting Porous Surface</td>
<td>Assoc Prof Dr Ku Zilati Binti Ku Shaari</td>
<td>FRGS</td>
</tr>
<tr>
<td>93</td>
<td>Exergetic Performance Investigation of Transcritical and Supercritical CO₂ Power Cycles</td>
<td>Dr Aklilu Tesfamichael Baheta</td>
<td>FRGS</td>
</tr>
<tr>
<td>94</td>
<td>Method and Correlation on the Enhancement of Natural Heat Transfer by Artificial Conic Turbulators</td>
<td>Assoc Prof Dr Hussain H Jaafer Al Kayiem</td>
<td>FRGS</td>
</tr>
<tr>
<td>95</td>
<td>Establishing the Empirical Correlation of the Phases and Sizes Change in the Gas Turbine Engine Blade Microstructure With Respect to Various Operating Temperatures.</td>
<td>Ir Idris Bin Ibrahim</td>
<td>FRGS</td>
</tr>
<tr>
<td>96</td>
<td>Novel Electrolyte in Dye-Sensitized Solar cells (DSSC) using Quinolinium Ionic Liquids</td>
<td>Assoc Prof Dr Cecilia Devi A/P Wilfred</td>
<td>FRGS</td>
</tr>
<tr>
<td>97</td>
<td>Exergoeconomics Model for Analysis of Offshore Power Generating Systems</td>
<td>Assoc Prof Ir Dr Mohd Amin Bin Abd Majid</td>
<td>FRGS</td>
</tr>
<tr>
<td>98</td>
<td>Effects of Sintering Environment on Mechanical Properties &amp; Corrosion Resistance of the Powder Injection Molded 316L Stainless Steel</td>
<td>Assoc Prof Dr Faiz Ahmad</td>
<td>Higher Education Commission of Pakistan</td>
</tr>
<tr>
<td>99</td>
<td>Insitu Catalytic Cracking of Biomass to Polyols, Alcohol, Phenolics, Aromatic and Alkanes</td>
<td>Assoc Prof Dr Suzana Yusup</td>
<td>LRGS</td>
</tr>
<tr>
<td>100</td>
<td>Establishment of Geological Atlas of Malaysia</td>
<td>Prof Dr Manuel Pubellier</td>
<td>French Embassy</td>
</tr>
</tbody>
</table>

Note:
ERGS — Exploratory Research Grant Scheme
PRGS — Prototype Research Grant Scheme
FRGS — Fundamental Research Grant Scheme
LRGS — Long Term Research Grant Scheme
Student Achievements and Activities

One of the hallmarks of this university is the high marketability and employability of its graduates. The University is proud to inform, consistently 95% of its graduates managed to gain employment in reputable local and multinational corporations within six months from their graduation. The high employability rate is a result of the University’s superior academic programmes and education delivery complemented with sound implementation of systematic student development programmes which integrates both theoretical and experiential learning. These educational efforts are directed at developing students’ potential including inculcating strong moral and spiritual attributes. Civic consciousness and sense of responsibility towards society and nation are also embedded in these programmes.

Participation in structured credited co-curricular courses provides holistic development for students. Various clubs and societies have been established to cater to various students’ needs. The University also promotes the formation of “Special Interest Groups” (SIGs) among students to bring together students with common interest. The wide range of extra-curricular activities complements and contributes to the well-rounded development of students.

The University also places great emphasis on the importance of a healthy lifestyle by providing a wide spectrum of sports and recreational facilities on campus. Active participation in sports events and competitions further develops and strengthens the students’ character. Strong encouragement is also given for students’ involvement in arts and culture. Many students participate in the various performing arts groups the university has to offer.

UTP is now well known in sports and performing arts. UTP students are well respected as champions in various sports competitions and performing arts, locally and abroad. UTP is now recognised as the best private university in sports and performing arts in the country. Through these active involvements, UTP graduates are acknowledged to have strong leadership, effective communication skills, business acumen and problem solving skills. These attributes including technical competency and strong moral conduct makes UTP graduates very much sought after by industry.

Alumni

There are many successful alumnus who have made great impact in various reputable organisations locally and internationally. They have now reached strategic decision making levels and also able to influence direction of industry and national development. UTP Alumni is now in a position to be the shakers and movers of industry and nation building. The philanthropy culture is actively being nurtured among the alumni so that the alumni members can consistently give back to the alma mater and society.

To date there are already 10 international chapters established in countries like Cambodia, Indonesia, Myanmar, Pakistan, South Africa, Sudan, Thailand, Turkmenistan and Vietnam. Locally, twelve branches have been established including Sabah and Sarawak. These alumni have been active in promoting the UTP brand, while doing their part to motivate students towards engineering and science education, and introducing the challenging and attractive oil and gas career to students.
### Student Achievements

<table>
<thead>
<tr>
<th>No</th>
<th>Activities</th>
<th>Date</th>
<th>Venue</th>
<th>Organizer/Host</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Kejohanan Bola Sepak MASISWA 2013</td>
<td>18 – 23 Feb 2013</td>
<td>UKM, Bangi</td>
<td>MASISWA</td>
<td>Quarter Final</td>
</tr>
<tr>
<td>5</td>
<td>Pertandingan Debat Keamanan Antar IPT 2013</td>
<td>28 Feb – 4 Mar 2013</td>
<td>Universiti Pertahanan Nasional Malaysia</td>
<td>Ministry of Higher Education (MOHE) &amp; UPNM</td>
<td>Semi Finals</td>
</tr>
<tr>
<td>6</td>
<td>PKS-UM World University Netball Championship 2013</td>
<td>20 – 24 Feb 2013</td>
<td>Universiti Malaya (UM)</td>
<td>UM, Kuala Lumpur</td>
<td>Third Place</td>
</tr>
<tr>
<td>7</td>
<td>Nilai University Fencing Championship 2013</td>
<td>22 – 24 Feb 2013</td>
<td>Gymnasium Institut Sukan Negara</td>
<td>Nilai University, Nilai</td>
<td>Grouping Stage</td>
</tr>
<tr>
<td>8</td>
<td>Debat Perdana Integriti Antara IPT 2013</td>
<td>8 – 11 Mar 2013</td>
<td>Universiti Tun Hussein Onn Malaysia (UTMH)</td>
<td>Institut Integriti Malaysia, UTHM &amp; MADUM</td>
<td>Semi Finals</td>
</tr>
<tr>
<td>No</td>
<td>Activities</td>
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</tbody>
</table>
| 10 | Festival & Kejohanan Pencak Silat Terbuka IPT & Jemputan Antarabangsa Taming Sari UKM V, 2013 | 3 – 7 Apr 2013 | Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor | UKM Pencak Silat Club in Collaboration With UKM Sports Center. | **Quarter Final:**  
1. Muhammad Firdaus Bin Zainudin (ME) – Class E  
2. Muhammad Saufi Bin Ahmad Shahran (PGS) – Class H  
3. Suffi Sayyid Bin Sulaiman – (EE) – Class D  
4. Mohamad Hakim Bin Abdul Rahman (CV) – Class F  
5. Mohamad Bakhit Aiman Bin Harun (CV) – Class B  
**Bronze:**  
1. Nurul Fatihah Binti Awang (ME) – Class B  
2. Nurul Syifa Shafirah Binti Omar (EE) – Class C  
**Silver:**  
1. Muhammad Zulfaqar Bin Md Zahri (ICT) – Class C  
**Gold:**  
1. Muhamad Hasyeme Bin Nasir (EE) – Class A |
| 11 | Pertandingan Gamelan Melayu Peringkat Kebangsaan 2013 | 20 – 21 April 2013 | Dewan Sultan Mizan, Universiti Malaysia Terengganu (UMT) | Lembaga Muzium Negeri Terengganu in collaboration with Jabatan Budaya dan Kesenian Negeri Terengganu | 2nd runner-up with a prize worth RM6,000.00 |
| 12 | UTP Soccer League 2013 | 06 Mar – 14 Apr 2013 | UTP Sports Complex | Co-Curriculum Unit, Student Support Services Department | Champion – DOBI FC  
Runner-up – AL-ITTIHAD FC |
Runner-up – STAFF FC |
| 14 | Flexpro Nottingham University Malaysia Campus Badminton Championship 2013 | 15 – 17 Mar 2013 | The University of Nottingham Malaysia Campus (UNMC), Semenyih | The University of Nottingham Malaysia Campus (UNMC), Semenyih | Preliminary round |
| 15 | Kejohanan Futsal IPT Piala Menteri Pengajian Tinggi 2013 (Sirkit 1) UIA | 21 – 24 Mar 2013 | International Islamic University Malaysia (IIUM), Gombak | International Islamic University Malaysia (IIUM), Gombak | Grouping Stage |
| 16 | Taylor's University Squash Open 2013 | 13 – 14 Apr 2013 | Pusat Skuasy Nasional, Bukit Jalil | Taylor's University | Win Category Plate – Hussein Nordin bin Soraji |
| 17 | Festival of Colours of the World 2013 | 13 Apr 2013 | Chancellor Hall, UTP | Co-Curriculum Unit Student Support Services Department, UTP | Champion: UiTM Shah Alam (Prisma Seni)  
1st Runner-up: ASWARA (Rang Budayo)  
2nd Runner-up: Sekolah Seni Johor Bharu |
<table>
<thead>
<tr>
<th>No</th>
<th>Activities</th>
<th>Date</th>
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<th>Organizer/Host</th>
<th>Achievement</th>
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</thead>
<tbody>
<tr>
<td>18</td>
<td>Pertandingan Gamelan Melayu Peringkat Kebangsaan 2013</td>
<td>21 Apr 2013</td>
<td>Dewan Sultan Mizan, Universiti Malaysia Terengganu (UMT)</td>
<td>Lembaga Muzium Negeri Terengganu &amp; Jabatan Budaya dan Kesenian Negeri Terengganu</td>
<td>2nd runner-up</td>
</tr>
<tr>
<td>19</td>
<td>Debat Muhibbah 2013</td>
<td>3 – 5 May 2013</td>
<td>Sembawang Camp Challenge, Singapore</td>
<td>Singapore Malay Youth Literary Association</td>
<td>Champion</td>
</tr>
<tr>
<td>20</td>
<td>Youth Challenge Malaysia 2013 (ASME)</td>
<td>8 – 9 May 2013</td>
<td>Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor</td>
<td>Educvent, Sequoia</td>
<td>One of The Best 3 Teams For Central Region</td>
</tr>
<tr>
<td>21</td>
<td>Penang Debate Open 2013</td>
<td>21 – 24 May 2013</td>
<td>Universiti Teknologi MARA (UITM) Bukit Mertajam, Pulaian Pinang</td>
<td>UTM Bukit Mertajam, Pulaian Pinang in collaboration with Majlis Debat Universiti Malaysia (MADUM)</td>
<td>3rd place</td>
</tr>
<tr>
<td>22</td>
<td>MASISWA Swimming Championship 2013</td>
<td>8 – 9 June 2013</td>
<td>INTI International University, Nilai, Negeri Sembilan</td>
<td>MASISWA in collaboration with INTI International University</td>
<td>Overall Result: 1st Runner Up</td>
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<td></td>
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<td>GOLD:</td>
<td>1. 100 m Breaststroke – Lee Hsiu Eik (Male)</td>
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<td>2. 50 m Breaststroke – Lee Hsiu Eik (Male)</td>
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<td>3. 100 m Breaststroke – Lim Chia Wei (Female)</td>
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<td>4. 200 m Breaststroke – Lee Hsiu Eik (Male)</td>
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<td>5. 200 m Breaststroke – Lim Chia Wei (Female)</td>
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<td>SILVER:</td>
<td>1. 100 m Breaststroke – Nur Anis Najihah (Female)</td>
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<td></td>
<td>2. 200 m Breaststroke – Nur Anis Najihah (Female)</td>
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<td></td>
<td>BRONZE:</td>
<td>1. 200 m Freestyle – Lim Chia Wei (Female)</td>
</tr>
<tr>
<td>23</td>
<td>Kejohanan Sukan MASISWA Zon Utara 2013</td>
<td>21 – 23 June 2013</td>
<td>Malaysia Spanish Institute (UniKL MSI), Kulim, Kedah</td>
<td>Majlis Sukan IPTS Malaysia (MASISWA) and Malaysia Spanish Institute (UniKL MSI)</td>
<td>Overall Champion – UTP Badminton:</td>
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<td>Women's Single – Silver</td>
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<td>Women's Double – Silver</td>
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<td>Mix Double – Gold, Bronze</td>
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<td>Tenpin Bowling:</td>
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<td>Men's Team – Silver</td>
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<td></td>
<td>Women's Team – Gold</td>
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<td></td>
<td>Individu (Female) – Silver</td>
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<td>No</td>
<td>Activities</td>
<td>Date</td>
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<td>Organizer/Host</td>
<td>Achievement</td>
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</tbody>
</table>
Final: 1. Muhammad Firzaus bin Zainudin - Class D (Putera) |
| 26 | 32nd Perak Closed Taekwondo (WTF) Championship 2013 | 27 – 29 Sept 2013 | Dewan Bunga Raya, Kuarters Seri Angkasa TUDM, Ipoh, Perak | Persekutuan Taekwondo Negeri Perak (PTNP) and Jass Taekwondo Club | Overall 3rd placing in Sparring Overall 2nd placing in Poomsae |
| 27 | Kejohanan Bola Tampar Jemputan Politeknik Tuanku Sultanah Bahiyah, Kulim | 28 – 29 Sept 2013 | Politeknik Tuanku Sultanah Bahiyah, Kulim, Kedah | Politeknik Tuanku Sultanah Bahiyah | 3rd place |
| 28 | Cheonan World Dance Festival | 28 Sept – 7 Oct 2013 | Seoul, Korea | Cheonan Art and Cultural Promotion-Tourism Korea | Champion – Folk Dance Competition |
### Student Achievements and Activities

<table>
<thead>
<tr>
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<th>Organizer/Host</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>SPE Asia Pacific Regional Student Paper Contest</td>
<td>22 – 24 Oct 2013</td>
<td>Jakarta, Indonesia</td>
<td>2013 Asia Pacific Oil &amp; Gas Conference and Exhibition</td>
<td>2nd Prize Winner – Cha Yee Weng (12901)</td>
</tr>
<tr>
<td>33</td>
<td>Kejohanan Rugbi MASISWA 10'S 2013</td>
<td>25 – 27 Oct 2013</td>
<td>Universiti Tenaga Nasional (UNITEN), Putrajaya</td>
<td>Majlis Sukan Institusi Pengajian Tinggi Swasta Malaysia (MASISWA) and Universiti Tenaga Nasional (UNITEN)</td>
<td>Champion</td>
</tr>
</tbody>
</table>
| 34 | Kejohanan Kanu Kebangsaan 2013                          | 1 – 3 Nov 2013 | Pusat Rekreasi Air Tasik Ayer Keroh, Melaka                | Kementerian Belia dan Sukan (KBS) with Jabatan Belia dan Sukan Negeri Melaka and Persatuan Kanu Malaysia (MASCA) | \* Open Category:  
1. Single (Male) – Champion  
2. Double (Male) – 2nd Runner-UP  
   IPT Category – 4th Runner-Up |
| 35 | Kejohanan Sukan Institusi Pendidikan Malaysia (SIPMA) 2013 | 15 – 22 Nov 2013 | Kolej Matrikulasi Pahang (KMPh), Gambang, Pahang         | Majlis Sukan Institusi Pengajian Tinggi Swasta (MASISWA) | 3 Silver medals (Swimming Team)  
   1. Lim Chia Wei (PE) – 15274  
   2. 2 silver medals in the 4x100m Medley Relay and 4x100m Relay  
   2. Nur Anis Najihah (BIS) – 17941  
   3. 1 silver medal in 4x100m Relay |
| 36 | GE University Level Open Innovation Grand Finale Challenge | 19 Nov 2013    | Renaissance Hotel, Kuala Lumpur                           | Agensi Innovasi Malaysia                                                       | 2nd Prize worth of RM2000  
1. Muhammad Syukri Bin Mohd Shah  
2. Muhammad Izzuddin bin Mohamad Zaki (Final Year Bachelor of Chemical Engineering) |
| 37 | International Student Sports Carnival 2013 (ISSC)        | 29 Nov – 1 Dec 2013 | Universiti Tenaga Nasional (UNITEN)                      | Kementerian Pendidikan Malaysia and Universiti Tenaga Nasional (UNITEN)         | Overall Champion  
4 gold, 4 silver and 3 bronze medals |
<table>
<thead>
<tr>
<th>No</th>
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<th>Date</th>
<th>Venue</th>
<th>Organizer/Host</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>Larian Hari Keputeraan Sultan Azlan Shah</td>
<td>5 Dec 2013</td>
<td>SMK Clifford, Kuala Kangsar, Perak</td>
<td>Pacesetters Athletic Club</td>
<td><strong>11 Km Men Open:</strong></td>
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<td></td>
<td>1. Almur Abdelkreem Saeed Rabih (G01997) – 1st Placing</td>
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<td>2. Hamedelgazali Abdullah Hamed Ahmed (17759) – 5th Placing</td>
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<td>3. Izzalden Idris Abdalla (G01999) — Finisher</td>
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<td>4. Shathiskumar A/L Sockalingam (12846) – Finisher</td>
</tr>
</tbody>
</table>
## Student Activities

<table>
<thead>
<tr>
<th>Activities</th>
<th>Date</th>
<th>Venue</th>
<th>Organiser / Host</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yong Belar – Tiga Negeri Cleaning Expedition</td>
<td>8 – 12 Jan 2013</td>
<td>Mount Yong Belar, Cameron Highlands</td>
<td>Kelab Kembara</td>
</tr>
<tr>
<td>Facilitator and Media Faci For Minggu Aluan Siswa Jan 2013 Programme</td>
<td>Jan 2013</td>
<td>UTP</td>
<td>Student Support Services Department</td>
</tr>
<tr>
<td>International Goodwill Programme</td>
<td>8 – 13 Jan 2013</td>
<td>Siem Reap, Cambodia</td>
<td>Rotaract Club</td>
</tr>
<tr>
<td>Visit to Pertubuhan Kebajikan Nur Kasih, Taiping, Perak</td>
<td>28 Jan 2013</td>
<td>Pertubuhan Kebajikan Nur Kasih Simpang 3, Ulu Sepetang, Taiping</td>
<td>ENACTUS</td>
</tr>
</tbody>
</table>
| Chinese New Year Donation                                                  | 15 – 19 Feb 2013 | 1. Gunung Lang Monastery, Ipoh  
2. Yayasan Latihan Insan Istimewa, Ipoh  
3. Agape Family, Ipoh           | UTP Alumni and UTP Alumni Unit                  |
<p>| Educational Trip to KL &amp; CSR Programme                                     | 3 Feb 2013    | Zoo Negara                                      | International Student Council (ISC), Mozambique Committee &amp; International Student Unit (ISU) |
| Arabic Language Teaching Programme                                         | 9 Feb – 14 Dec 2013 | SMK Agama Sultan Azlan Shah, Perak           | International Student Unit (ISU)                     |
| Global Enrichment Programme                                                | 27 Feb – 9 Mar 2013 | University of Tokyo and University of Gunma, Japan | UTP PB Student Representative (UTPHost), International Student Council (ISC) and Village 4 Committee |
| UTP-INSTEP Intercultural Programme for South Sudanese &amp; Equatorial Guinea | 13 Feb 2013   | INSTEP, Batu Rakit Terengganu                   | Counseling &amp; Students Development Unit               |
| Majlis Salam Sayang &amp; Pra-Kempen “Greetings, Salam and Smile”            | 17 Feb 2013   | Dewan Orang Ramai &amp; Bangunan Kemas, Batu Kurau Taiping | Sekretariat Rakan Muda UTP                          |
| Medical Camp 2013                                                          | 16 Mar 2013   | Tesco Extra Bercham                            | Rotaract Club                                        |
| Tunas Cemerlang                                                           | 16 Mar 2013   | Bait Al-Amin, Parit                            | Counseling &amp; Students Development Unit               |
| Majlis Pelancaran 1Malaysia Komuniti Perwani &amp; 1 Million Women Purple Walk| 17 Mar 2013  | Dataran Putrajaya, Padang Ipoh &amp; Padang Seri Iskandar | Ministry of Higher Education (MOHE)                 |
| Pre Event Mission Awareness Programme (MAP) 2013                          | 17 Mar 2013   | Trong and Taiping, Perak Darul Ridzuan         | MAP Committee Members &amp; International Student Unit (ISU) |
| Beyond Horizon Motivational Outreach 2013                                  | 17 Mar 2013   | SMK Tarcisian Convent, Ipoh                     | Counseling &amp; Students Development Unit               |
| SK Suak Padi Transformation (1M4U Programme)                              | 23 Mar 2013   | SK Suak Padi, Bota, Perak                      | EUPHONIUOS 2013 Committee                            |
| Excel Score UPSR                                                          | 30 Mar 2013   | Undercroft, UTP                                | Counseling &amp; Students Development Unit &amp; UTP Peers   |
| Green to Gold (GTG)                                                        | Mar 2013 – Mar 2014 | Kg Padang Marhum, Teluk Bakong, Perak         | ENACTUS                                              |</p>
<table>
<thead>
<tr>
<th>Activities</th>
<th>Date</th>
<th>Venue</th>
<th>Organiser / Host</th>
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<tbody>
<tr>
<td>Gang of Peers 2013</td>
<td>5 – 7 Apr 2013</td>
<td>Ruman Anak Yatim Ar-Rayyan, Johor</td>
<td>Counseling &amp; Students Development Unit</td>
</tr>
<tr>
<td>Youth in Community (YIC)</td>
<td>13 Apr 2013</td>
<td>UTP</td>
<td>ENACTUS</td>
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<tr>
<td>Focus Group Programme Orang Asli Society and Community Info 1Malaysia</td>
<td>14 Apr 2013</td>
<td>SK Suak Padi, Bota, Perak</td>
<td>Department of Information Perak and in collaboration with Perak Tengah District Council</td>
</tr>
<tr>
<td>Youth in Community (YIC)</td>
<td>4 May 2013</td>
<td>UTP</td>
<td>ENACTUS</td>
</tr>
<tr>
<td>Mission Awareness Programme</td>
<td>6 – 11 May 2013</td>
<td>Kg Trong, Daerah Larut Matang &amp; Selama, Perak</td>
<td>International Student Unit (ISU)</td>
</tr>
<tr>
<td>Greetings, Salam and Smile Campaign</td>
<td>9 May – 16 Aug 2013</td>
<td>UTP</td>
<td>International Student Unit (ISU), Sekretariat Rakan Muda UTP, Ministry of Higher Education (MOHE)</td>
</tr>
<tr>
<td>Moment to Share Rumah Seri Kenangan 2013</td>
<td>12-13 May 2013</td>
<td>Rumah Seri Kenangan Tanjung Rambutan</td>
<td>Sekretariat Rakan Muda UTP</td>
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<tr>
<td>Children Provision Charity 2013</td>
<td>1 Jun – 19 Jul 2013</td>
<td>UTP &amp; Orphanage Homes</td>
<td>Rotaract Club</td>
</tr>
<tr>
<td>MEDTECH Cyber Gen 2013</td>
<td>1 Jun 2013</td>
<td>MRSM, Parit</td>
<td>MEDTECH</td>
</tr>
<tr>
<td>Technology, Education and Career (TEC), CSR Visit</td>
<td>2 Jun 2013</td>
<td>Rumah Kebajikan Anak Yatim Darus As-Salam, Ipoh</td>
<td>TEC Committee, Career Service Unit</td>
</tr>
<tr>
<td>CDSU I-NAT CSR Project</td>
<td>4 Jun 2013</td>
<td>Sekolah Rendah Agama Seri Iskandar (SRAHSI)</td>
<td>Counseling &amp; Students Development Unit</td>
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<tr>
<td>Autocad and Geomatics Class 2013</td>
<td>4 Jun 2013</td>
<td>Pocket C, UTP</td>
<td>UCITY Club</td>
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<tr>
<td>Charity Works for Community</td>
<td>9 Jun 2013</td>
<td>Kampong Batu 14, Lekir Setiawan</td>
<td>Class Project ICT/BIS</td>
</tr>
<tr>
<td>Moment to Share PPRT Titi Gantung 2013</td>
<td>9 Jun 2013</td>
<td>Kg Titi Gantung, Bota Perak</td>
<td>Sekretariat Rakan Muda UTP</td>
</tr>
<tr>
<td>My Beautiful Malaysia Day</td>
<td>Jun 2013</td>
<td>Putrajaya</td>
<td>Ministry of Higher Education (MOHE)</td>
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<tr>
<td>Educational Trip to Putrajaya for Celebrating Prophet Muhammad’s Birthday (Maulidur Rasul)</td>
<td>Jun 2013</td>
<td>Putrajaya</td>
<td>International Student Unit (ISU)</td>
</tr>
<tr>
<td>Beyond Horizon Motivational Outreach Programme</td>
<td>21 – 23 Jun 2013</td>
<td>SMK Ghafar Baba, Melaka</td>
<td>UTP BHMOC6, In Collaboration with UTP Peer Helpers and UTP Counseling &amp; Students Development Unit</td>
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<tr>
<td>Car Wash for Charity</td>
<td>29 Jun 2013</td>
<td>UTP</td>
<td>Class Project Chemical Engineering</td>
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<tr>
<td>Cleaning the Cemetery</td>
<td>29 Jun 2013</td>
<td>Bota, Seri Iskandar</td>
<td>Class Project Petroleum Engineering</td>
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<tr>
<td>Jenazah Management &amp; Cleaning The Cemetery</td>
<td>29 Jun 2013</td>
<td>Kampung Bali</td>
<td>Class Project Civil Engineering</td>
</tr>
<tr>
<td>Moment to Share – PPRT Titi Gantung 2013</td>
<td>29 Jun 2013</td>
<td>Kg Titi Gantung, Bota Perak</td>
<td>Sekretariat Rakan Muda UTP</td>
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<tr>
<td>Teater Kaunseling Interaktif</td>
<td>4 Jul 2013</td>
<td>SMK Ringlet, Cameron Highlands</td>
<td>Tronoh Theatre Shop</td>
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<tr>
<td>Moment to Share – PPRT Titi Gantung 2013</td>
<td>7 Jul 2013</td>
<td>Kg Titi Gantung, Bota Perak</td>
<td>Sekretariat Rakan Muda UTP</td>
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<tr>
<td>SEDEX31 UTP: 1Mkids Programme</td>
<td>11 Jul 2013</td>
<td>UTP</td>
<td>RESMATH</td>
</tr>
<tr>
<td>Activities</td>
<td>Date</td>
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<tr>
<td>Cleaning the Mosque</td>
<td>13 Jul 2013</td>
<td>Masjid Sultan Yussof Ipoh</td>
<td>Class Project Electrical Engineering</td>
</tr>
<tr>
<td>Iftar with Rumah Nurul Iman</td>
<td>14 Jul 2013</td>
<td>Rumah Nurul Iman, Kamunting Perak</td>
<td>Class Project Mechanical Engineering</td>
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<tr>
<td>IKRAM MAANA</td>
<td>27 Jul 2013</td>
<td>Pusat Jagaan Anak-anak Yatim dan Miskin Nurul Iman, Ipoh, Perak</td>
<td>Class Project Post Graduate</td>
</tr>
<tr>
<td>MPPUTP CSR Project</td>
<td>27 Jul 2013</td>
<td>Pertubuhan Kebajikan Anak Yatim Dan Miskin Ar-Ridwani, Ipoh, Perak</td>
<td>MPPUTP</td>
</tr>
<tr>
<td>MAS CSR Project</td>
<td>27 Jul 2013</td>
<td>SK Tronoh, SJK (T) Tronoh, SJK (C) Tronoh</td>
<td>Counselling &amp; Student Development</td>
</tr>
<tr>
<td>Youth Social Responsibility</td>
<td>3 Aug 2013</td>
<td>SJK (T) Tronoh, SJK © Chung Sun</td>
<td>IChemE-UTP-SC</td>
</tr>
<tr>
<td>Moment to Share — PPRT Titi Gantung 2013</td>
<td>17 Aug 2013</td>
<td>Kg Titi Gantung, Bota Perak</td>
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<tr>
<td>CSR Programme – Cross Cultural Programme With SMJK (C) Sin Min, Sungai Petani, Kedah Darul Aman</td>
<td>23 – 24 Aug 2013</td>
<td>Cinta Sayang Resort, Sungai Petani Kedah</td>
<td>Co-Curriculum Unit and Universiti Teknologi PETRONAS Performing Arts Group (UPAG)</td>
</tr>
<tr>
<td>Youth in Community (YIC)</td>
<td>14 Sept 2013</td>
<td>UTP</td>
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<tr>
<td>Community Service and Intercultural Exchange Programme in Vietnam</td>
<td>16 – 22 Sept 2013</td>
<td>Ho Chi Minh City, Vietnam</td>
<td>International Student Council (ISC) in collaboration with Ho Chi Minh City University of Technology (HCMUT), Alumni Group of Vietnamese Students in UTP and Student Support Services Department</td>
</tr>
<tr>
<td>Corporate Social Responsibility (CSR) Programme by Chemical Exposure Symposium (CHEXPOSIUM)</td>
<td>4 Oct 2013</td>
<td>SMK Tronoh</td>
<td>IChemE@UTP</td>
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<tr>
<td>Sousday Cambodia 2013</td>
<td>13-16 Oct 2013</td>
<td>Chrok Romiet, Kg Chhnang Province, Cambodia</td>
<td>Sekretariat Rakan Muda UTP</td>
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<td>School Workshop in Perak (SWIP)</td>
<td>18 Oct 2013</td>
<td>SMK Ave Maria Convent, Ipoh</td>
<td>AIESEC-UTP Student Chapter</td>
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<td>Youth Social Responsibility</td>
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<tr>
<td>Innovative Green Future</td>
<td>18 – 25 Oct 2013</td>
<td>St Michael Institution, Ipoh, Perak</td>
<td>IDEC UTP</td>
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<tr>
<td>Visit to Orphanage</td>
<td>19 Oct 2013</td>
<td>Pusat Jagaan Persatuhan Kebajikan Yatim Rumah Visi Ipoh</td>
<td>Rotaract Club</td>
</tr>
<tr>
<td>School Workshop in Perak (SWIP)</td>
<td>24 Oct 2013</td>
<td>SMK Sungai Pari, Ipoh</td>
<td>AIESEC-UTP Student Chapter</td>
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<tr>
<td>School Workshop in Perak (SWIP)</td>
<td>25 Oct 2013</td>
<td>SMK Seri Puteri, Ipoh</td>
<td>AIESEC-UTP Student Chapter</td>
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<tr>
<td>Youth Social Responsibility</td>
<td>8 Nov 2013</td>
<td>SMK Tronoh</td>
<td>Rotaract Club</td>
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<tr>
<td>The Kasih Project</td>
<td>8 – 10 Nov 2013</td>
<td>Kg Padang Changkat Bota, Perak</td>
<td>MPPUTP</td>
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<tr>
<td>An Orphanage Day in UTP</td>
<td>20 Nov 2013</td>
<td>UTP</td>
<td>AIESEC-UTP Student Chapter</td>
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## Student Achievements and Activities | Student Activities

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<tr>
<td>My Village Project</td>
<td>29 Nov – 1 Dec 2013</td>
<td>Kg Pauh/Padang in the area of Behrang, Perak</td>
<td>Student Support Services Department</td>
</tr>
<tr>
<td>Programme Sukarelawan Sempena Hari Sukarelawan Sedunia 2013</td>
<td>5 Dec 2013</td>
<td>SK Tronoh, Perak</td>
<td>International Student Club (ISC) and Co-Curriculum Unit</td>
</tr>
<tr>
<td>Donation for the Flood Victims in the East Coast of Malaysia</td>
<td>18 – 19 Dec 2013</td>
<td>Kemaman, Terengganu</td>
<td>UTP Alumni in collaboration with ENACTUS Club (UTP Chapter)</td>
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