



**UNIVERSITI
TENAGA
NASIONAL**

The Energy University

ANNUAL REPORT 2018






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ANNUAL REPORT 2018

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Creative, Innovative & Energetic.

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The Energy University

ANNUAL REPORT 2018



VICE-CHANCELLOR'S REVIEW

ANNUAL REPORT 2018



**Dato' Prof. Ir. Dr.
Kamal Nasharuddin Mustapha**
*Vice-Chancellor
Universiti Tenaga Nasional*

I am pleased to present Universiti Tenaga Nasional (UNITEN) Annual Report 2018 and to share with you the highlights of this exciting year. Considering 2018 has been declared as Another Year of Delivery, we have made substantial progress, as we entered the second phase of our Building Opportunities, Living Dreams 2025 (BOLD2025) Strategic Plan. This supports the continued growth and development of UNITEN and it charts the course for realizing our aim to become a Globally Competitive – Energy Focused University by 2025. At the forefront of UNITEN's transformation wave, we are proud to witness the commencement of construction works on our new RM120 million state-of-the-art open multidisciplinary laboratory at the heart of the campus. This is indeed an exciting time for UNITEN. The University is rapidly growing with significant upgrading works which provide further world-class facilities for students and staff.

UNITEN offers industry-driven and outstanding education at affordable cost. Currently, UNITEN holds a total number of 9,161 students studying in the fields and programmes of their choice from foundation, diploma, degree, masters to PhD level. Besides being accredited by local professional bodies, our academic programmes are also accredited by international professional bodies. Strong university-industry linkages would be an added advantage for our students to gain valuable experiences working with experts during their industrial training at our parent company, Tenaga Nasional Berhad (TNB), the biggest utility company in Southeast Asia. Students also benefit through international exchange programmes, career development programmes and extensive student development activities. This is further amplified by the dedication and hard work of our staff in broadening research collaborations with industry contributing to the creation of a vibrant academic learning community specifically tailoring the need of Malaysia Electricity Supply Industry (MESI).

For the immediate future, we have our sights firmly set on growing UNITEN Endowment Fund Ecosystem comprising Yayasan Canselor UNITEN (YCU), Tabung Amanah Zakat UNITEN (TAZU), Alumni Endowment Fund (ALEF) and Dana Wakaf Ilmu UNITEN (DWIU) which aims to ensure long-term financial sustainability of this institution. Realising the importance of endowment in attracting and retaining best and brightest students as well as expanding our academic programmes and research efforts, UNITEN is determined to raise cumulative endowment funds worth of RM104 million by 2025. The promising research environment in UNITEN coupled with the talented students and staff has the potential to change the world for the better. With healthy endowment funding, UNITEN can fulfil its mission for years to come.

UNITEN international reputation continued to advance as we are proud to announce that UNITEN is ranked at #171 in the Times Higher Education (THE) Asia University Rankings 2018 from more than 12,000 universities in Asia (Top 1.5% in Asia), while being ranked #7 among Malaysian universities. Our Engineering, Computer Science and Information Technology programmes are also ranked at #255 in the 2018 Quacquarelli Symonds (QS) World University Rankings by Subject: Engineering and Technology, while being ranked #8 among Malaysian universities. UNITEN is also ranked #159 in the world in the THE Emerging Economies World University Rankings 2018, and Top 250 in the world in the THE Young University Rankings 2018 for universities under 50 years of age.

UNITEN achievements are grounded on the dedication and leadership of our staff, students and alumni communities. Our progress is also attributed to the diligence and expertise of our Board of Directors, and I would like to acknowledge and thank Board members for their continuous support and commitment. I must admit that we are truly grateful to our Chancellor, His Excellency Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman Haji Abbas, Head of State of Penang for his passionate involvement, immense guidance and unwavering stewardship. The constructive engagement with our stakeholders is crucial to UNITEN's growth to be amongst this country's leading teaching and research institutions. Together we anticipate a bright and prosperous future for UNITEN and we are truly honoured to be part of this legacy.

Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha

Vice-Chancellor

Universiti Tenaga Nasional

UNIVERSITY IN BRIEF



UNITEN was first established in 1997 as one of the subsidiaries of TNB, a utility conglomerate in Southeast Asia. In support of its parent company's aspiration, UNITEN has forged a strong connection with the industry in order to prepare professional graduates which will eventually upgrade the university's reputation as the leading global energy university by 2025. UNITEN believes that every student has the potential to bloom. Hence, the university is very critical in moulding quality graduates in the field of engineering, information technology, computer science and business management. Apart from academic achievement, UNITEN strives to develop holistic students who also possess the soft skills employers look for.

OUR TEACHING AND LEARNING ASPECT

UNITEN has two campuses which are Putrajaya Campus located in Selangor and Sultan Haji Ahmad Shah Campus (KSHAS) located in Pahang. It caters students who seek knowledge in different programme such as Foundation, Diploma, Bachelor's Degree, Masters and PhD. UNITEN has been equipping its graduates with necessary skills and practical knowledge to help them facing the real working-life in the near future.

The courses at UNITEN are certified by the Malaysian Qualification Agency (MQA). The engineering courses are also accredited by the Engineering Accreditation Council Malaysia (EAC). Besides, the engineering and accounting courses are recognised by professional bodies which include the Board of Engineer Malaysia (BEM), the Institution of Mechanical Engineers (IMechE), the Institute of Electrical and Electronic Engineers (IEEE), the Institution of Civil Engineers (ICE), the Malaysia Institute of Accountants (MIA), the Institute of Chartered Accountants in England and Wales (ICAEW), and the Association of Chartered Certified Accountants (ACCA).

UNITEN keeps updating and upgrading its academic and infrastructure to meet the demands and needs of today's market. Hence, the latest development of UNITEN can be seen through its first Energy Sphere which was launched in December 2018. The Energy Sphere is a shared resource for advance training for postgraduate level in UNITEN, which is multidisciplinary in nature, especially those focusing on the energy sector. It also serves as an important role which integrates a variety of relevant disciplines such as teaching, research and consultation under all institutions in UNITEN. The development of this laboratory is in line with its BOLD2025 Strategic Plan.

OUR RESEARCH

UNITEN researchers have been contributing to the UNITEN community, specifically, and the local community, generally, through their studies. This is aligned with UNITEN's aim which is to develop the spirit of giving back to the community. At this university, the graduates are also expected to produce quality research, guided and facilitated by the experts – lecturers.

UNITEN operates several research institutes namely Innovation & Research Management Centre (iRMC), Institute of Power Engineering (IPE), Institute of Sustainable Energy (ISE), Institute of Energy Policy & Research (IEPR), Institute of Informatics & Computing in Energy (IICE), and Institute of Energy Infrastructure (IEI). This is an indication that UNITEN is not only committed to producing industry-driven graduates but also scientific research.

OUR REPUTATION

Over the past years, the world has seen the stunning transformation of UNITEN in pursuit of academic excellence which has improved its reputation. Being granted 5 Star (Excellent) in the Rating System for Higher Education Institutions in Malaysia (SETARA) 2017, UNITEN has successfully positioned itself as a globally competitive energy-focused university. SETARA is a rating mechanism to measure the performance of undergraduate teaching and learning in universities and university colleges in Malaysia. UNITEN has also been granted Self-Accreditation Status which serves as a testament of a reliable quality assurance system is in place within UNITEN to systematically review its own academic programmes. Apart from that, obtaining this Self-Accreditation Status implies the empowerment and trust laid upon UNITEN by MQA to certify its own courses.

In 2018, UNITEN ranked 243 in the QS Asian University Rankings. UNITEN also ranked 255 in the QS World University Rankings by Subject in Engineering and Technology. In the THE World University Rankings, UNITEN was placed 801 – 1000. Besides, the university emerged for the first time in the THE Young University Ranking (World) and THE Emerging Economies University Rankings (World) which placed the university 201 – 250 and 159 respectively. Under the Webometric ranking system, UNITEN was ranked first among private institutions in Malaysia and ninth among universities in Malaysia.





VISION

A leading global energy university that shapes a sustainable future

MISSION

We strive to advance knowledge and learning experience through research and innovation that will best serve human society



UNIVERSITY GOVERNANCE

ANNUAL REPORT 2018

CHANCELLOR



**Tuan Yang Terutama
Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman Haji Abbas**

PRO-CHANCELLORS



YBhg. Tan Sri Leo Moggie



**YBhg. *Academician*
Tan Sri Dr. Ir. Ahmad Tajuddin Ali, FASc**

BOARD OF DIRECTORS



1

1. YBhg. Tan Sri Datuk Academician Ir. Ts. Dr. Ahmad Zaidee Laidin, FASc



2

2. YBhg. Dato' Ir. Mohd Yusof Ibrahim, FASc



3

3. YBhg. Tan Sri Leo Moggie



4

4. YBhg. Datuk Seri Ir. Azman Mohd



5

5. YBhg. Dato' Prof. Dr. Rujhan Mustafa



6

6. YBhg. Dato' Muhammad Razif Abdul Rahman



7

7. YBhg. Mr. Nazmi Othman



8

8. YBhg. Ms. Norina Jamaludin



9

9. YBhg. Dato' Seri Ir. Dr. Zaini Ujang



10

10. YBhg. Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha

MANAGEMENT COMMITTEE



1. YBhg. Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha
Vice-Chancellor
2. YBhg. Dato' Prof. Ir. Dr. Ibrahim Hussein
Deputy Vice-Chancellor (Academic & Research)
3. YBhg. Dato' Prof. Ts. Dr. Mohd Zamri Yusoff
Deputy Vice-Chancellor (Student Affairs & Alumni)
4. YBhg. Prof. Dr. Siti Salbiah Mohammed Shariff
Deputy Vice-Chancellor (Management & Development)
5. YBhg. Prof. Dr. Salina Daud
Deputy Vice-Chancellor (Sultan Haji Ahmad Shah Campus)
6. YBhg. Prof. Dr. Bahisham Yunus
Chief Business Development Officer
7. YBhg. Prof. Ir. Dr. Izham Zainal Abidin
Dean, College of Engineering



8. YBhg. Prof. Dr. Zainuddin Hassan
Dean, College of Computer Science & Information Technology
9. YBhg. Dato' Prof. Ir. Dr. Norashidah Md Din
Dean, College of Graduate Studies
10. YBhg. Assoc. Prof. Dr. Bakhtiar Alrazi
Dean, College of Business Management & Accounting
11. YBhg. Prof. Dr. Abu Bakar Musa
Dean, College of Foundation & Diploma Studies
12. YBhg. Ms. Fairuzana Haneem Mohamed Ali
Chief Financial Officer
13. YBhg. Mr. Zulkarnain Md Noor
Registrar
14. YBhg. Mr. Faizul Abdul Raof Faiz
Senior Manager (Human Resource Department)

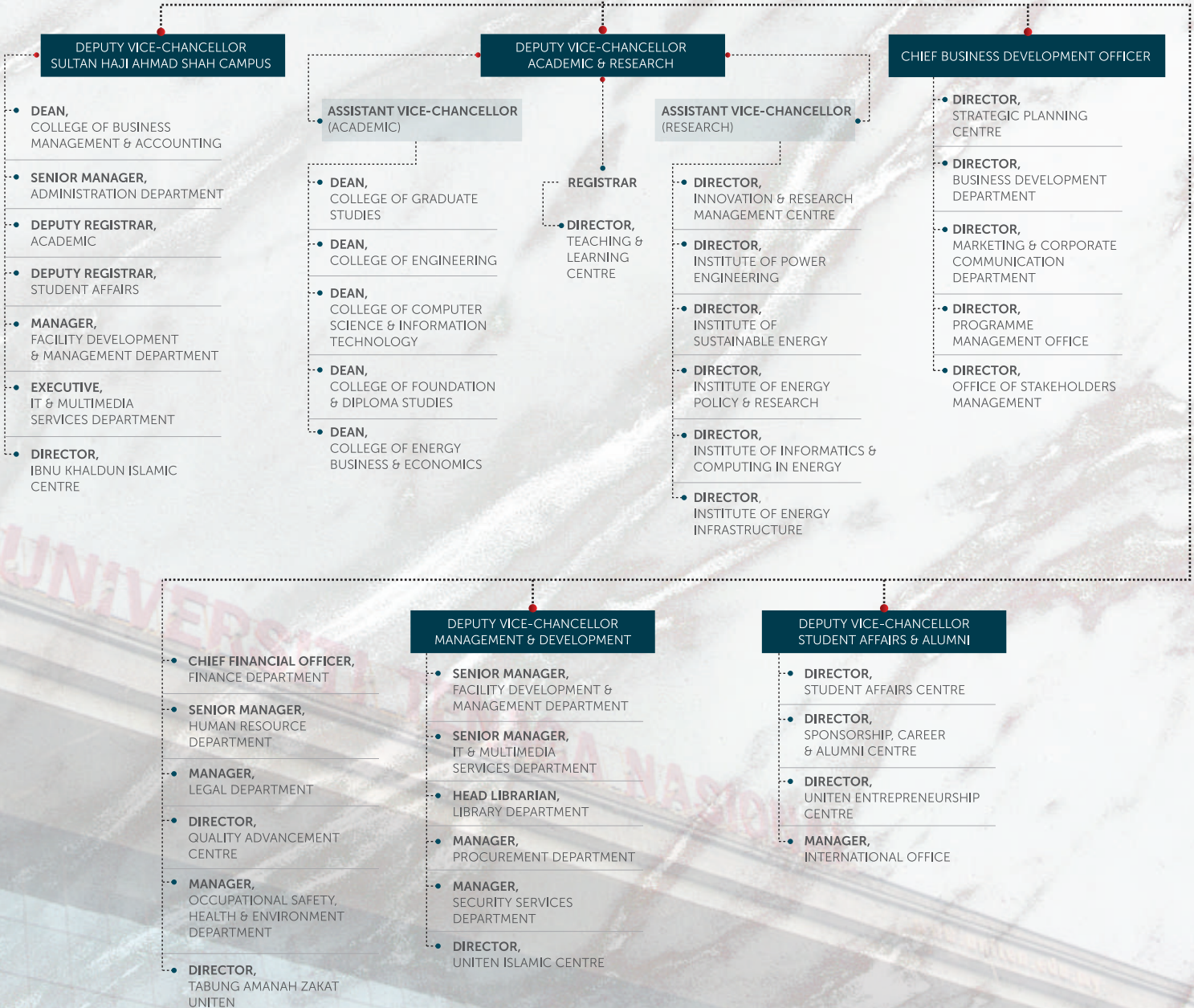
ORGANISATIONAL CHART

ANNUAL REPORT 2018

UNITEN RESEARCH & DEVELOPMENT SDN. BHD.
(URND)

VICE-CHANCELLOR
UNIVERSITI TENAGA NASIONAL SDN. BHD.

YAYASAN CANCELOR UNITEN (YCU)



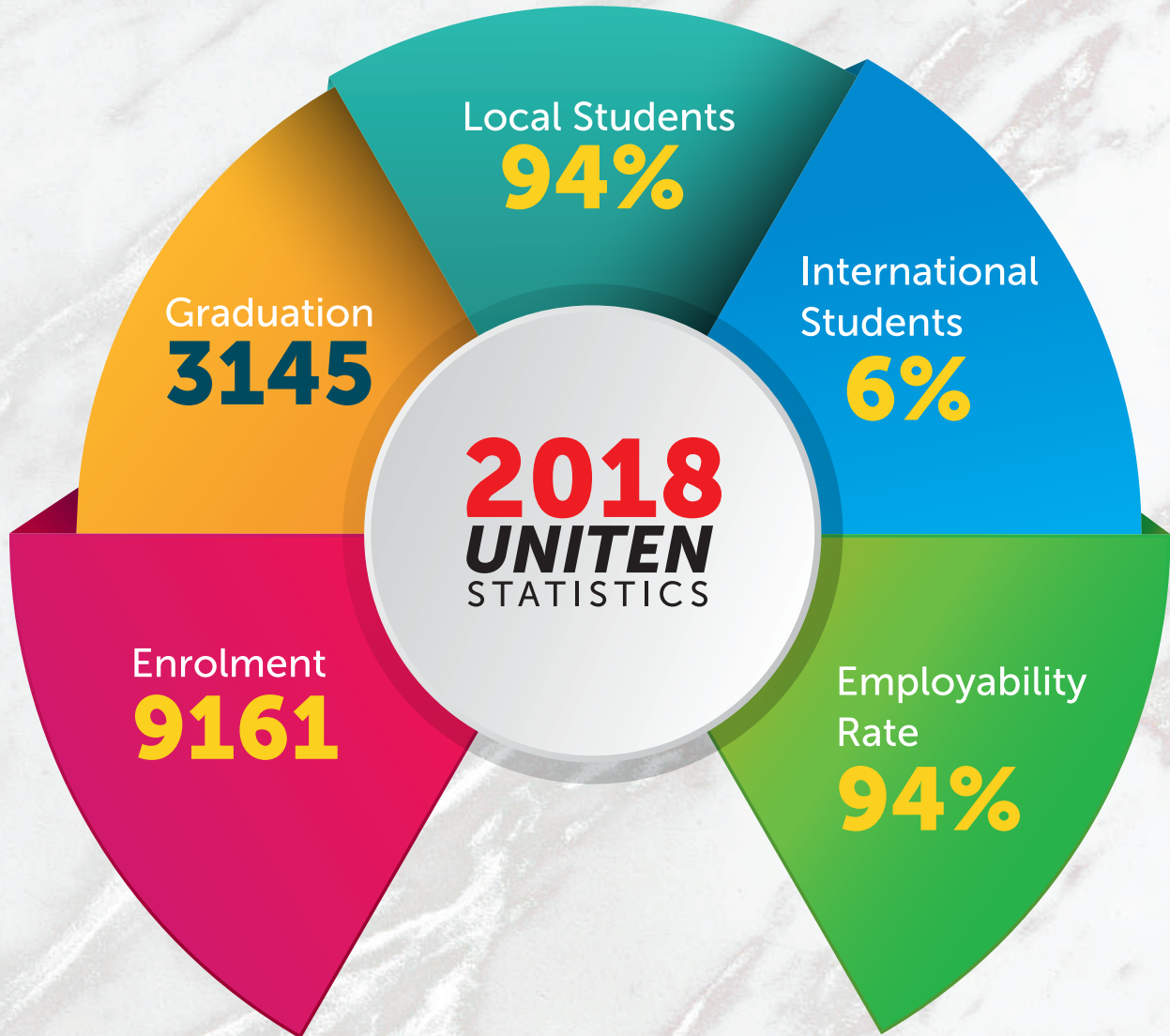
UNITEN IN NUMBERS

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RANKINGS & HIGHLIGHTS



▼ 2018 UNITEN STATISTICS



2018 HIGHLIGHTS

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2018 ANOTHER YEAR OF DELIVERY

2018 had been a great year for UNITEN to do its level best for the betterment of the University in addressing the overall scenario in the educational sector within Malaysia in relation to the number of new student intake. Concentrated efforts by intensive marketing and provision of scholarships and financial assistance have helped to improve the intake number in 2018. The international students' composition has also increased to 6% compared to previous year.

With the implementation of BOLD2025 Strategic Plan Phase 1, UNITEN has accomplished:

- Graduates' employability rate of 94% based on the Tracer Study conducted by Ministry of Higher Education in 2018. 6% of UNITEN graduates are entrepreneurs and job creators.
- Upgrading of UNITEN facilities including teaching and learning facilities, student apartments and 10Gbps internet access for both Putrajaya Campus and KSHAS. The open lab project has also commenced in 2018.
- Recruitment of eight world class professors through the Strategic Hires initiative for talent development of UNITEN staff. Research partnerships were forged with Imperial College, Oxford Institute for Energy Studies, Massachusetts Institute of Technology (MIT), Sheffield University and The Institute of Energy Economics, Japan (IEEJ). This resulted in three collaborative research programmes with high profile institutions.
- Accumulation of endowment fund totalling RM72 million since year 2016 to date. Under BOLD2025 Strategic Plan, target of cumulative endowment is RM 104 million by the year 2025.
- UNITEN has also improved its ranking in the QS Asian Rankings 2018 at #243 and QS World Rankings by Subject 2018 (for Electrical & Electronic Engineering) at #255.

OUR YEAR IN REVIEW

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University Events



Vice-Chancellor's Aspiration: Another Year of Delivery

10 & 17 January 2018

Held at Dewan Seri Sarjana, Vice-Chancellor's Aspiration themed Another Year of Delivery grabbed the attention of the participants among UNITEN staff to stay focus on the mission of the University. UNITEN Vice-Chancellor, YBhg. Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha, also shared about the achievements of UNITEN and the missions for the year 2018.

UNITEN Received a Multipurpose Van

6 February 2018

Pusat Islam Ibnu Khaldun (PIIK) KSHAS received a multipurpose van from Koperasi Serbausaha Makmur Berhad (KOSMA) in February 2018. The key vehicle replica was handed over to YBhg. Prof. Dr. Salina Daud, Deputy Vice-Chancellor of KSHAS at the KOSMA Business Hotel, Kuantan. This occasion is considered as a corporate social responsibility (CSR) initiative by KOSMA to help UNITEN KSHAS deliver the service to those in need.

UNIREADY Camp 2018

12 February – 2 March 2018

UNIREADY Camp is a preparatory programme designed to expose students to university life. 80 participants had the chance to explore their potential university courses and scholarships available, and to attend programmes such as English class, academic study skill, sponsorship briefing, lab visit, CSR at UNITEN horse stables, and UNITEN explorece.

International Forum on Global Energy Landscape : Electricity & Gas Market Liberalisation and Its Implication to Malaysian Economy 2018 (IFGE 2018)

13 February 2018

Hosted by UNITEN, the International Forum on Global Energy Landscape: Electricity & Gas Market Liberalisation and Its Implication to Malaysian Economy (IFGE 2018) received astounding participation from many. This forum was sponsored by UNITEN and IEPRe with support from Malaysian Energy Commission and TNB. The first forum was held in 2016.

UNITEN Open Day 2018

17 - 18 March 2018

UNITEN Open Day is an annual event organised to attract SPM leavers to enrol at UNITEN. The visitors get the opportunities to communicate directly with UNITEN lecturers about the courses offered here as well as the accommodation and facilities available. Apart from that, they can get the information regarding scholarships available to fund their studies here in UNITEN. Lecturers from both campuses, Putrajaya and KSHAS, collaborate to promote the University to the visitors.

Youngpreneurs Go! (YPGO) Carnival

13 - 14 March 2018

YBhg. Dato' Sri Jamil Salleh, the Chairman of the Companies Commission of Malaysia, launched the Youngpreneurs Go! (YPGO) Carnival on 13 March 2018 at UNITEN KSHAS. Many exciting activities were held during the programme such as entrepreneurship seminar and forum, and exhibition and sale.





University Events



Robot Contest 2018 (ROBOCON 2018)

20 - 22 April 2018

UNITEN hosted Robot Contest 2018 (ROBOCON 2018) from 19 to 22 April 2018 at Dewan Seri Sarjana, UNITEN. This competition was participated by 36 teams from 31 participating Malaysia higher education institutions. UNITEN team, Mobile Robotic Club UNITEN, won the Best Design Award. The closing ceremony was graced by YBhg. Datin Paduka Ir. Dr. Siti Hamisah Tapsir, Director-General of Ministry of Higher Education.

Hari Kecemerlangan UNITEN 2018

3 & 15 May 2018

Hari Kecemerlangan UNITEN is held annually to give recognitions to UNITEN staff. Awards were presented to excellent staff in administrative and academic tasks. There was also a sharing session by the Managing Director of TNB Janamanjung Sdn. Bhd. (TNBJ), YBhg. Datuk Shamsul Ahmad, on Transforming TNBJ to be a World Class Organisation in UNITEN KSHAS, while in Putrajaya Campus, the ceremony was graced by YBhg. Dato' Prof. Dr. Rujhan Mustafa.

CEO Lecture Series

2 June 2018

YBhg. Datuk Seri Ir. Azman Mohd, the President/Chief Executive Officer (CEO) of TNB, was the invited speaker who delivered a lecture entitled "The Impact of IR 4.0 in Power Utilities". The lecture took place at Lecture Hall 1, College of Computer Science and Information Technology (CSIT), UNITEN. The lecture offered insights and imparted valuable knowledge to the participants.

UNITEN Iftar Perdana 2018

4 June 2018

Ramadhan is an anticipated month where people would gather to do good deeds despite their status. Every year, UNITEN organises *UNITEN Iftar Perdana* to gather with UNITEN community during this holy month and performs Tarawikh prayer at UNITEN mosque. The program usually involves UNITEN management, staff and students.

Majlis Mesra Hari Raya 2018

10 July 2018

Hari Raya Aidilfitri marks the end of fasting period with a joyous celebration. In 2018, UNITEN celebrated eid by organising a special event and served scrumptious treats. Besides this big event, the business units also organised their Open House and invited staff, students and other guests.

Graduate Industry Excellence Award 2018 (AIG 2018)

2 August 2018

UNITEN awarded its outstanding students with Graduate Industry Excellence Award that took place at Marriott Hotel in Putrajaya. 51 students received the awards due to their excellent performance during their tenure of studies as well as being actively involved in co-curricular activities. There were 60 awards sponsored by 32 companies presented to graduates in diploma, bachelor's and postgraduate programmes.





University Events



UNITEN 21st Convocation

4 – 6 August 2018

Convocation is the time to celebrate, reflect and honour one's accomplishments. Hence, this event is hosted every year by UNITEN to celebrate its graduates. In 2018, 3145 received their scrolls and hence marked the end of their studies at UNITEN. UNITEN is proud of its graduates and hope that they will succeed in their career path.

International Symposium & Exhibition on Business & Accounting 2018 (ISEBA 2018)

28 – 29 August 2018

The College of Business Management and Accounting (COBA) held the International Symposium & Exhibition on Business & Accounting 2018 (ISEBA 2018), themed Business Sustainability in an Era of Digital Disruption. The participants presented their works in the fields of accounting, finance, economics, management and human resources, marketing and entrepreneurship, education and others. The event was co-organised by YCU, Universiti Malaysia Pahang (UMP) and Kolej Yayasan Pahang (KYP).

International Graduate Conference on Energy, Engineering & Technology 2018 (iGRAD2018)

4 – 5 September 2018

The International Graduate Conference on Energy, Engineering & Technology 2018 (iGRAD2018) provided a platform to integrate research and education in the vital fields of energy and environment, electrical, electronics and computing technology, mechanical, civil and industrial science. iGRAD2018 created an interdisciplinary summit that transcends academia and industry to build an effective collaboration and networking opportunities in Malaysia and surrounding countries.

Collaboration between UNITEN and Brunei's Ministry of Energy, Manpower and Industry (MEMI)

11 October 2018

A meeting chaired by UNITEN Vice Chancellor, YBhg. Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha, attended by Brunei Deputy Permanent Secretary of Ministry of Energy, Manpower and Industry (MEMI), Pengiran Jamra Weira Pengiran Haji Petra; Chief Representative Officer of TNB in Indonesia; and UNITEN management intended to build a cooperative bond with Brunei's MEMI in capacity building through advanced courses in energy and enabling technology. UNITEN moves forward in shaping the future of the industry.

Beyond Structures 2018

20 October 2018

The highest number of participants at "Beyond Structures 2018 : Form and Function" competition organised by the College of Engineering (COE), UNITEN and Institution of Structural Engineers (IStructE), Malaysia Regional Group demonstrated support towards students' development in terms of professionalism, skills, as well as logical, critical and creative minds. A total of 288 civil and structural engineering students in 36 teams from 23 participating universities from Malaysia and Singapore competed in a structural model building challenge using only materials and tools provided by the organisers in a stipulated time.

Empowering Women Summit 2018

27 October 2018

The initiative to empower women in Malaysia has grabbed UNITEN community's attention. The university made an effort to support the initiative by hosting "Empowering Women Summit 2018" with the theme "Building a Lifetime Opportunity for Women" which was attended by almost 200 participants including UNITEN staff and students. The summit was graced by the Deputy Minister of Women, Family and Community Development, YB. Hannah Yeoh Tseow Suan, who also delivered the officiating speech.





University Events



UNITEN Career Fair 2018

30 - 31 October 2018

UNITEN Career Fair 2018 was held successfully from 30 to 31 October 2018 at Dewan Seri Sarjana, UNITEN. A total of 20 local and international companies took part in the fair, which was officiated by YBhg. Dato' Prof. Dr. Mohd Zamri Yusoff, Deputy Vice-Chancellor (Student Affairs and Alumni). The fair brought together the best of jobs and career advancement for the visitors.

Kayuhan Mesra DYTm Raja Muda Perlis, DYTm Tuanku Syed Faizuddin Putra Ibni Tuanku Syed Sirajuddin Jamalullail

4 November 2018

Kayuhan Mesra with DYTm Tuanku Syed Faizuddin Putra Ibni Tuanku Syed Sirajuddin Jamalullail, Raja Muda Perlis and his cycling team, EMGS and also representatives from UNITEN was held successfully in UNITEN in November 2018. Besides cycling, the team also had the chance to meet the Asnaf and distribute basic necessities to them.

Petron Road Safety Amazing Race Safety

14 November 2018

Petron conducted their fifth Road Safety Programme at UNITEN to raise awareness on the importance of tyres, to educate students on basic tyre safety and to inculcate good driving habits and road safety skills among the public, especially the young. There were attractive activities held such as Road Safety with Petron and Honda, Tyre Inspection with Michelin, Road Safety with the Road Safety Department (RTD) and On the Road with the RTD.

Malaysian Energy Professionals Association (MEPA) Energy Night 2018

16 November 2018

Malaysian Energy Professionals Association (MEPA) Energy Night 2018 was held on 16 November 2018 at the Putrajaya Marriott Hotel. During the event, MEPA President, Datuk Mohsen Hasbollah presented YBhg. Tan Sri Leo Moggie, the Chairman of TNB with the MEPA Appreciation Award in recognition of his consistently high levels of support towards the association. MEPA signed a Memorandum of Understanding (MoU) with UNITEN for Energy Management and Energy Engineering Training Courses.

Desapreneur@UNITEN KSHAS

21 November 2018

Desapreneur@UNITEN KSHAS was attended by 200 new local entrepreneurs from three residential areas which are; Muadzam Shah, Felda Keratong Bandar Tun Razak and Kampung Tradisional Kota Bahagia. The programme that received full support from TNB, YCU and Suruhanjaya Syarikat Malaysia (SSM) followed three core modules prepared by UNITEN senior lecturers focusing on costing, marketing and finance.

Endowment Fundraising Dinner “An Evening Illuminating Dreams”

5 December 2018

UNITEN via YCU organised its annual Endowment Fundraising Dinner “An Evening Illuminating Dreams” at the Tenera Hotel, Bandar Baru Bangi in conjunction with Endowment, Zakat & Waqf Fund Management Conference 2018, held at the same venue. This fundraising dinner was aimed to raise fund to be channelled to deserving students, within the B40 income group. More than 300 guests, which consist of corporate companies’ representatives, conference participants, UNITEN alumni, students and staff, attended the auspicious event, with close to RM800,000 fund collected.





University Events



Endowment, Zakat & Waqf Fund Management Conference 2018

5 – 6 December 2018

The Endowment, Zakat & Waqf Fund Management Conference 2018 was held at the Tenera Hotel, Bandar Baru Bangi from 5 to 6 December 2018. The participants of the conference had the opportunity to understand how endowment and fund investment models change in the post-crisis era, identify effective and new approaches, strategies and styles in endowment and fund investment, and identify the effectiveness of alternative investments in contributing value added to the portfolio of a non-profit organisation.

Mesra Komuniti @ UNITEN KSHAS

8 December 2018

UNITEN KSHAS conducted *Mesra Komuniti @ UNITEN KSHAS* on 8 December 2018 in order to strengthen the relationship with the local. The event received support from several government agencies such as the National Anti-Drugs Agency (AADK), Road Transport Department (JPJ), and Fire and Rescue Department, UNITEN staff and students. The event received full support from YCU, Adabi and Rompin District Council.

Launching of The Energy Sphere

20 December 2018

UNITEN, via its College of Graduate Studies (COGS), launched its interdisciplinary laboratory named The Energy Sphere (TES) in December 2018. The event was officiated by the Vice Chancellor of UNITEN, YBhg. Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha at TES, Block BE, UNITEN. TES is a shared resource for advance training for postgraduate level in UNITEN, which is multidisciplinary in nature, especially those focusing on the energy sector. It also serves as an important role which integrates a variety of relevant disciplines such as teaching, research and consultation under all institutions in UNITEN. The development of this laboratory is in line with its Building Opportunities, living Dreams (BOLD2025) strategic plan.

IELTS Workshop

25 – 26 January 2018

CFDS conducted an IELTS Workshop for lecturers who teach Intensive English Program (IEP). During the workshop, lecturers were exposed to the format and sample questions of IELTS. This workshop would benefit the lecturers and enhance their teaching skills. It combined pertinent information about IELTS with practical ways to help prepare for the test.

Pertubuhan Kakitangan Universiti Tenaga Nasional (PAKAT) Hi-tea 2018

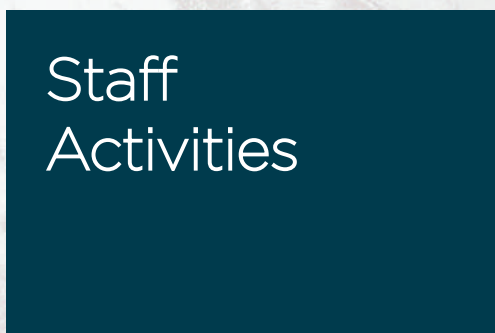
26 January 2018

Pertubuhan Kakitangan Universiti Tenaga Nasional (PAKAT) Hi-tea is an annual event aims to strengthen the relationship between the members. It provides the platform for the members to socialise and further discuss any important issues and programmes to be conducted throughout the year. The event marks the first of any future events and guides the members to look at the same direction.

Walk & Cycle Day

9 February 2018

UNITEN encourages its staff to stay healthy and has organised programmes that promote healthy lifestyle. The University organised Walk & Cycle Day in February 2018 to encourage its staff to improve their general health and wellbeing. Hence, this kind of event is essential to ensure staff are physically and mentally fit which may contribute to positive attitude at workplace.





Staff Activities



SANAKO Language Lab Training

13 – 14 February 2018

The impact of technology on education has profoundly affected education. Teaching and learning activities are now more interactive and exciting. UNITEN KSHAS held a SANAKO Language Lab Training for its staff considering its benefits to teaching and learning aspects in the era of technology. The lab facilitates classroom engagement and interaction through technology which is interactive in nature compare to the traditional method.

Sedekah Subuh

14 February 2018

Sedekah Subuh was organised by *Persatuan Kebajikan Pekerja Islam (PKPI)* in collaboration with *SINERGI 4* and *UNITEN Human Resource Department (HRD)* to deliver donations to the needy. Besides cash contributions, they also donated clothes and dishware. This event has to be held frequently to instil positive belief and values in them. Being able to give back to those in need is a great accomplishment as it gives a sense of satisfaction.

1st Series Workshop: Identifying Research Problems & Objectives

28 February 2018

The first series workshop on Identifying Research Problems & Objectives was delivered by Assoc. Prof. Dr. Chandrankantan Subramaniam from Universiti Utara Malaysia (UUM). This kind of workshop is much-needed by the lecturers as it helps to expand their research knowledge and update them with the latest issues in research. This workshop has helped lecturers and researchers to initiate their research.

Launching of Life Saving Rules (LSR)

8 March 2018

Life Saving Rules (LSR) is a safety guidelines which ensures safety and increases safety performance at all TNB premises. The main aim of the LSR is to prevent serious injuries that could lead to fatalities. The 2018 LSR was graced by Ms. Nurubadeah Khadizan, Manager (HSE Culture Program), Health, Safety and Environment Department, TNB, as the speaker for the programme.

Sukan Integrasi KSHAS 2018

5 – 16 March 2018

UNITEN cultivates a healthy lifestyle so its staff can stay fit. One of its initiatives is through sports – *Sukan Integrasi KSHAS 2018*. Among the sports contested were badminton, volleyball, ping pong, and dart. COBA secured the first place by grabbing 10 gold medals, five silver medals and 8 bronze medals. Sports offer more than just physical benefits. It also helps people to be emotionally and mentally fit.

2nd Series Workshop: Critical Literature Review

23 March 2018

Research is one of the elements that develop a university. Hence, COBA invited Dr. Hayrol Azril Mohamed Shaffril from UPM to share his knowledge on Critical Literature Review. The workshop was aimed at expanding the research skills of lecturers and encourage good writing. Additionally, the workshop encouraged fresh perspectives, developed new ideas, and created network, among others.





Staff Activities



PAKAT Annual General Meeting (AGM) 2017/2018

13 April 2018

In order to discuss motions, suggestions as well as matters arising for the benefit of the members, PAKAT organised its annual general meeting (AGM) for the year 2017/2018. This meeting aimed to discuss issues, events and elect the new leadership line-up. An AGM is required to comply with legal requirements such as the election of committee members.

Dates Distribution during Ramadhan

24 – 25 May 2018

In 2018, Pelitawanis of UNITEN-YTN branch distributed 70 packs of dates and drinks to UNITEN staff and students at COE. This is an annual programme held each year during the holy month of Ramadhan. Dates have its benefits and usually consumed by Muslim during Iftar. The act of distributing dates to the staff is seen as a good deed and has to be done regularly, not only during Ramadhan.

Projek Ceriakan Syawal 2018

9 June 2018

Aidilfitri 2018 for the children of Rumah Kebajikan Asnaf Sahabat Muqarabin Muadzam Shah became more meaningful. They received donation in the forms of clothes and shoes in a program organised by PKPI Muadzam Shah and Pelitawanis TNB, Muadzam Shah branch. This charity clothing donation drives was supported by many and enabled the less fortunate to joyfully celebrate eid.

Glamorous Raya COBA 2018

27 June 2018

Raya celebration is an annual event held by most business units in UNITEN. In 2018, COBA held a raya celebration as a platform to strengthen the ties between the staff. The college also invited other business units to enliven the event. This act demonstrated the concept of unity being strongly practiced in the University and should be continued.

Kejohanan Sukan Integrasi Staf 2018 (SUKTEN 2018)

29 June – 1 July 2018

Kejohanan Sukan Integrasi Staf 2018 (SUKTEN 2018) was held at UNITEN Putrajaya Campus. This program involved staff of UNITEN KSHAS, ILSAS/LDC, TNBR/YTN and TCI. The staff contested in badminton, bowling, ping pong, takraw, netball, futsal and volleyball. UNITEN Putrajaya Campus emerged as the champion by grabbing six gold medals, seven silver medals and three bronze medals. UNITEN KSHAS secured the third place and bagged four gold medals, two silver medals and three bronze medals.

Mega Quality Moment 2018

10 – 13 July 2018

Mega Quality Moment 2018 was held to promote the notion of unity among UNITEN staff besides promoting UNITEN image to the society. Besides a talk by Ustaz Harryanto, there was also a fun run participated by staff and students. The event elicited interactions which helped the participants build their network, understand different perspectives while engaging with others, and practice their duties as the vicegerents of God.



Staff
Activities





Staff Activities



Seminar Solat & Sains

20 July 2018

Seminar Solat & Sains was delivered by Prof. Ir. Dr. Fatimah Ibrahim of University of Malaya at Admin Theatre, Putrajaya Campus. The seminar was about discovering the scientific facts on prayers and divided into two slots. The first slot was about the effects of postures of prayers towards body composition. Meanwhile, the second slot was about prayers as the brain system therapy.

Ziarah Asnaf at Rompin, Pahang

21 July 2018

PIIK organised *Ziarah Asnaf* at Rompin, Pahang in order to fathom the poverty issue among the Asnaf. This programme has cultivated a culture of caring, and instilled a sense of cooperation and leadership. This programme was hoped to bring joy to the asnaf families and inspire them to create a better life.

Majlis Ibadah Qurban Masjid UNITEN 1439H / 2018M

23 August 2018

Majlis Ibadah Qurban Masjid UNITEN is an annual event held during Aidiladha. In 2018, UNITEN mosque in conjunction with PKPI Bangi and Pelitawanis TNB joined hands to conduct the event. The event received support from many people who assisted the event from the beginning until the end.

Gerobok Rezeki

10 October 2018

Recognising the financial constraints faced by students, UNITEN mosque decided to help them by establishing *Gerobok Rezeki*. Basic needs such as rice, flour and sugar were placed and could be taken by the needy. Besides, the program was aimed at instilling good moral value among UNITEN community.

Seminar Pembudayaan Zakat & Wakaf

19 October 2018

Seminar Pembudayaan Zakat & Wakaf, organised by TAZU, was held in October 2018 at Lecture Hall 1, CSIT. The seminar was graced by Ustaz Anuar Hamzah Tohar and Ustaz Hamizul Abdul Hamid who enlightened the audience on the role of zakat and waqaf in leading the education and economy of the *Ummah*. The talk provided the audience with additional knowledge on the aspects of zakat and waqaf which are vital to the Muslim. In short, the seminar was effective and beneficial to the attendees.

Bicara Terbuka Anak Terpelihara

21 October 2018

Bicara Terbuka Anak Terpelihara was officiated by YBhg. Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha, UNITEN Vice-Chancellor cum YDP PKPI TNB Bangi Branch at UNITEN Library Auditorium. The panels of this forum include Hajah Rosmawati Zainal, Ustaz Abd Muhamin Mohd Shahar and Dr. Alizi Alias, while the moderator was Prof. Dr. Hanim Salleh.





Staff Activities



Doa Selamat, Yaasin and Gotong Royong at Club House

26 October 2018

This event was held to officiate PAKAT club house for the purpose of club activities and to strengthen the ties between the members. They worked together to ensure the cleanliness of the club house so it can be properly used by the members for any club activities. After the gotong-royong, they recited yaasin and *doa selamat* together.

Pengurusan Konflik: “Ini Bukan Masalah Saya!”

31 October 2018

Ustaz Pahrol Mohamad Juoi was invited to give a talk entitled *Pengurusan Konflik: “Ini Bukan Masalah Saya!”* at UNITEN. Among the main discussions were obstacles in an organisation and aim and needs. The speaker shared essential notion of working in an organisation according to Islamic perspectives. The content could be applied in the real working life which will eventually improve the University’s reputation.

Turn-it-in Briefing

9 November 2018

UNITEN KSHAS lecturers were given a training to further enhance their credibility in the academic field. The training, known as Turn-it-in Briefing, was held at the Computer Lab and provided the participants with relevant knowledge in checking assignment or other tasks. Providing trainings to lecturers would help them to enhance their career as lecturers.

Maulidur Rasul Celebration

20 November 2018

Muslims celebrated *Maulidur Rasul* with parades to commemorate the birth of Prophet Muhammad S.A.W. In 2018, UNITEN Putrajaya Campus also participated in such activity and won the Best Parade for the category of NGO/IPTA/IPTS/Mosque. Meanwhile, UNITEN KSHAS won the second place for the category of IPTA/IPTS/School. These events took place in Selangor and Pahang respectively.

Pelitawanis Hi-tea, An Evening with "RED" 2018

14 December 2018

Pelitawanis UNITEN-YTN branch organised a hi-tea with its members, family as well as retired members. This annual event was attended by 47 participants. The theme was An Evening with "RED" and most of the participants wore red to follow the theme. This event allowed the members to socialise and communicate about the future events.

Back 2 School

17 December 2018

PKPI Muadzam Shah and TNB in collaboration with Pelitawanis and Pusat Islam Ibnu Khaldun (PIIK) organised a CSR programme called 'Back 2 School' where contributions in forms of cash and school stationery were distributed to PKPI members' children and deserving kids around Muadzam Shah. The programme was officiated by UNITEN KSHAS Deputy Vice-Chancellor, YBhg. Prof. Dr. Salina Daud.



Staff Activities





Student Activities



Frost & Sullivan Case Challenge Malaysia 2018

8 February 2018

A group of UNITEN students made the University proud by winning the Frost & Sullivan Case Challenge Malaysia 2018. The Frost & Sullivan Case Challenge Malaysia is a platform for next generation leaders to present their ideas to address the real-world problems faced by businesses and governments in today's digital age.

Champion of TNB Malaysia Hockey League (TNBMHL) 2018

18 January – 2 March 2018

PKS UNITEN-KPT emerged as champion of TNB Malaysia Hockey League (TNBMHL) 2018 (Women). The goals were scored by Elyya Syahirah Elias, Hanis Nadiah Onn, Nuraini Rashid, Nabihah Mansuur and Fatin Shafika Sukri. This proud achievement serves as an evident that UNITEN does not only focus on academic excellence but also sports to develop wholesome graduates who are sought after by the industry.

Amazing Taxplorace 2018

24 February 2018

Five Bachelor of Accounting (Hons.) students participated in the Amazing Taxplorace 2018 in conjunction with the Inland Revenue Board's (LHDN) FIT HASIL 2018. They won the third place; taking away RM150 cash prize, plaque, medals, and certificates. UNITEN is proud that its students managed to apply the knowledge they learnt in the classroom in the competition. They have proven that UNITEN students are the best among the best.

Hilti IT Competition 2018

26 – 29 March 2018

Every year, Hilti organises the IT competition to help solve some of the construction industry's most daunting challenges. Students and graduates from all over the world join the competition to prove themselves and kick-start their careers. UNITEN was represented by Muhammad Syam Malik Muhammad Naim, Dal Dalila Bhaari, Siti Nur Atiqah Essent and Noor Ayuni Zulkifli. Among the two teams represented the University, one team managed to compete in the final competition and grabbed the second place.

HSBC Malaysia Business Case Competition 2018

31 March – 12 April 2018

The HSBC Malaysia Business Case Competition 2018, a unique business case competition that provides a platform for local undergraduates to apply their practical business knowledge and skills to real life business scenarios, was participated by UNITEN students. UNITEN is proud that its students were qualified for the semi-final round of the competition. The competition fosters analytical thinking, stimulates creativity and hones competitive edge.

ICAEW Malaysia Regional Business Challenge 2018 (Southern Region)

24 April 2018

ICAEW Malaysia once again hosted the Regional Business Challenge. In the year 2018, this event was extended to the Northern, Southern and Central region of Malaysia. The Business Challenge is an excellent platform for undergraduates to learn more about careers in business and finance, meet with the top employers in Malaysia, strengthen their résumés and to sharpen their soft skills. UNITEN was the Regional Heats Champion represented by Mustafa Arief Mohd Nasir, Preveena Murugesu, Farah Aini Shazlin Salleh, Muhammad Nurhakim Abdul Halim, Muhammad Fitri Muhammad Fadzil and Irdina Batrisyia Riza Adami.





Student Activities



ASEAN Virtual Business Plan Competition

10 May 2018

UNITEN was among the top 6 finalists in the ASEAN Virtual Business Plan Competition held at Intekma Resort & Convention Centre, UiTM Shah Alam. The University was represented by Khairi and Nisa who successfully impressed future partners, investors and others to further enhance their innovation idea. UNITEN was guided by Tuan Abd Azharee Abdul Wahid, a UNITEN alumni and the mentor of the team, who has helped the students to keep improving their presentation and ideas.

UNITEN Student Received Queen's Young Leaders Award

26 June 2018

Siva Nagappan Visnesvaran has made UNITEN proud as he received the Queen's Young Leaders Award that recognises the work of the young people from the Commonwealth countries do for transformation. The ceremony took place in the Buckingham Palace in London on 26 June 2018. Siva developed new solutions to the existing environmental problems. He is also the co-founder of Project Paplet.

Jejak Warisan Asli

6 – 8 July 2018

Soft-skills Enhancement and Learning Support Association (SEALS) of UNITEN KSHAS in collaboration with YCU has successfully conducted a community service programme at Kampung Tiat, Cameron Highlands that involved 35 students of UNITEN and 165 indigenous people of Kampung Tiat. Activities conducted were among others basic English class, guide to personal hygiene, colouring competition and sports.

Karnival Sukan MPP KSHAS 2018

6 – 8 July 2018

Karnival Sukan MPP KSHAS 2018 was held from 6 to 8 July 2018 which involved 9 contingents. Among the sports being contested were volleyball, ping pong and chess. Needless to say, the event brought students from different programmes together. It is no secret that physical activity like this is good for the body. Additionally, it improves one's mental health.

SAS Fintech Challenge 2018

13 – 14 July 2018

SAS FinTech Challenge 2018 was aimed to encourage students and academics in Malaysia to contribute ideas and develop innovative solutions to enhance the banking experience and solve organisational business pain points. SAS, in collaboration with Malaysian Digital Economy Corporation (MDEC) targeted to excite students and academics in the FinTech ecosystem while accelerating its use in the financial services industry. Muhammad Mirza Hilman Baderolsham, Lee Chong Keat, Chew Jing Yao and Lim Kien Seng represented UNITEN and won the second place.

Karnival Sukan Mahasiswa UNITEN 2018

20 – 22 July 2018

Karnival Sukan Mahasiswa UNITEN is held bi-annually. In 2018, this event witnessed both UNITEN campuses competed to be the champion. They contested in eight sports category to grab 24 medals. Sports have a big educational impact. Holistic students are developed not only through academic excellence but also through sports. Playing sports requires a lot of time and energy. Hence, students must learn to juggle studies and sports as both are equally important.



Student
Activities





Student Activities



Entrepreneurship Day (E-Day)

8 August 2018

Entrepreneurship Day (E-Day) is an event held to empower and support entrepreneurs in business. There were stalls selling various products which allowed students to engage themselves in running a business. This gave them the experience of being an entrepreneur which may change the way they value knowledge.

Stand Out in a Crowd

8 August 2018

Dato' Sri Sharifah Sofiany, a board member of Petronas and an industry advisory panel of COBA shared her experience with students on the way to stand out among talented, smarter, and more skilful people. There was also a mentoring session with 10 accounting and finance students. This opportunity let them sort their personality and put things in positive perspectives.

Kejohanan Futsal UDC-UNITEN KSHAS 2018

11 August 2018

Kejohanan Futsal UDC-UNITEN KSHAS 2018 organised by UNITEN KSHAS Diploma Club was held at FIFA Futsal Court on 11 August 2018. This kind of event would strengthen the relationships between the students and promote healthy lifestyle among them and create a sense of community. The students also got to use the proper channel to reduce their anxiety and relax.

Green Youth Challenge 2018

15 August 2018

The Green Youth Challenge 2018 engaged university and school students in green innovation. The youths showcased their credibility in essay writing, debates and innovation. The challenge was aimed at promoting the importance of preserving the environment among the youths. Green awareness should be developed from a young age. It is our responsibility to create a generation who will continue to preserve the environment.

Fun with Arabic

17 August 2018

Basic Workshop entitled Fun with Arabic hosted by Diploma in Corporate Management with Tahfiz students attracted around 40 participants among UNITEN staff's children. Interesting activities were conducted apart from learning basic Arabic. The participants learnt Arabic in a collaborative, interactive and hands-on activities. The facilitators were knowledgeable and were very good in handling the kids during the workshop. Their effort ought to be praised.

Bakti Siswa 2018

26 – 29 September 2018

A Bakti Siswa programme, Mahasiswa Harapan Rakyat, was held in conjunction with the 21st UNITEN anniversary celebration and participated by more than 100 participants. UNITEN Student Representative Council (MPP) in collaboration with the Student Affairs Centre (SAC) has reached a consensus to organise the program in hopes of making the programme a starting point for UNITEN Students to co-live with the villagers. Bakti Siswa 2018 programme was sponsored and supported by YCU and TAZU.



Student Activities





Student Activities



Cabaran Debat Muda 2121 2018

28 September – 1 October 2018

UNITEN Debate Team has once again made the University proud by winning the second place in the *Cabaran Debat Muda 2121 2018* organised by Universiti Teknologi Petronas (UTP). The team was represented by Muhammad Afif Nazhan Mohd Hasni, Mohamad Hakimi Mohamed Kaberi, Mustafa Arief Mohd Nasir, and Muhammad Ilman Hakim Abdul Razak. The best debater won by Muhammad Afif Nazhan Mohd Hasni.

UNITEN New Students Orientation Session

7 October 2018

UNITEN KSHAS organised a CSR activity during the orientation session for the new students of October 2018 intake. This good cause was participated by 100 students who are facilitated by senior students. CSR is not only important for companies but also students as they are the future generation that will shape the human society that is more ethical and is engaged with the community.

Speak Out for Engineering 2018 (SOFE 2018)

15 October 2018

Speak Out for Engineering (SOFE) is a public speaking competition organised by the Institution of Mechanical Engineering, UK which is designed to develop verbal and visual communication in explaining technical mechanical engineering related subjects to non-technical audience members. Bhoshaga Mitrran, a Bachelor of Civil Engineering student, represented UNITEN in the SOFE National Level on 30 June 2018 at Southampton University, Johor and secured the second place. He also secured the first place in the South East Asia Region SOFE.

Art and Culture Fundraising Carnival (ACFC)

26 October 2018

Keeping in mind with the adage that goes a single act of kindness is like a drop of oil on a patch of dry skin—seeping, spreading, and affecting more than the original need; a group of volunteer comprising 26 lecturers and 60 students from the College of Foundation and Diploma Studies (CFDS) organised a fundraising carnival at The Loop, in front of UNITEN library. This programme was organized on 26 October 2018 with the aim to raise fund that would be channelled to National Cancer Council Malaysia (MAKNA) for treatment and care of cancer patients in Malaysia.

4th MFPC National Financial Planning Tournament 2018

2 – 4 November 2018

The Malaysian Financial Planning Council (MFPC) had taken the initiative in promoting awareness on values and importance of financial planning to the population at large, and in particular, to our undergraduates, by holding Financial Planning Quiz. MFPC organised the 4th MFPC National Financial Planning Tournament 2018 at EPF Learning Campus, Bangi. UNITEN was represented by Nor Athilah Mohd Asri, Mursyid Marzuki, Saidatul Umaira Mohamad and Siti Najihah Zulkify of COBA and secured the second place in Trading Games, and Top 6 in Quiz.

Accounting Students Conference 2018 (ASC 2018)

17 – 18 November 2018

The conference was aimed at providing students with insights into the accountancy profession and to equip them with the knowledge as to what is required of them as a professional accountant. This conference was also aimed to inculcate a lifelong learning culture in students from a young age and also to instil confidence in students by getting them involved in a conference of such magnitude even before they begin their professional life.



Student
Activities





Student Activities



Roll it! Throw it! Mudball

1 December 2018

The main aim of this event was to expand awareness on environmental issues, needs and programmes. The conducted programme successfully instilled the sense of responsibility towards the cleanliness of the river among the university students and the community. Last but not least, this event has instilled a healthy lifestyle in the society which is keeping the environment clean.

A Step Before

5 December 2018

A Step Before by Ms. Farah Lina Abd Rahim of RI Training & Consultancy was an initiative by COBA in developing students' interpersonal skills. Among the tips shared by the speaker were grooming, personal branding and effective resume writing. Graduates with good interpersonal skills are sought after by employers. Therefore, attending this programme would help students develop and enhance their confidence and personality.

Project Newspaper

15 December 2018

More than 300 volunteers from UNITEN participated in the Project Newspaper "There's No Planet B", an ambitious effort to fight plastic pollution by making 21,500 paper bags from used newspapers in a day. This project attempted to set a record in the Malaysia Book of Records for the "Most Number of Paper Bags made from Recyclable Newspapers" at The Mines, Seri Kembangan. 21,500 paper bags were produced and distributed to the public via the university and local participating businesses and malls.

TEACHING & LEARNING EXCELLENCE

ANNUAL REPORT 2018

At UNITEN, we take pride in providing a rich learning experience at the university that meets current market needs. In support of this, the Teaching and Learning Centre (TLC) conducts ongoing professional development courses to equip the academic staff with the necessary teaching skills as well as to empower them with up-to-date innovations in teaching and learning.

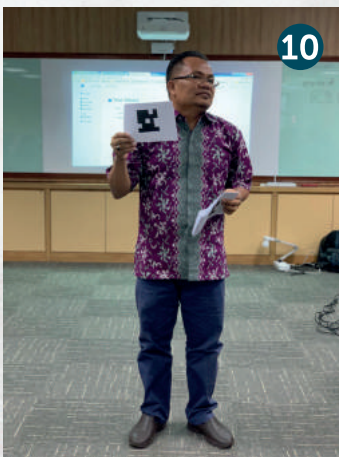
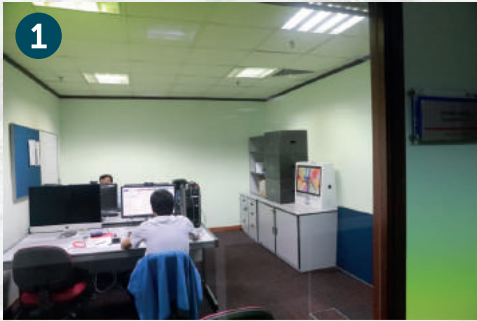
New and beginner lecturers are orientated into the university teaching and learning environment through an intensive certificate programme known as *Program Intensif Pensijilan Pengajaran & Pembelajaran* (PIP3) taken within the first three years of their career at UNITEN. As for the mainstream academic population, their teaching skills and pedagogical knowledge are continuously updated through short courses, workshops as well as occasional seminars and conferences. The courses and workshops provided by TLC range from skills-based courses to academic personal development, to innovations in teaching for lecturers at all levels and disciplines.

Below are the professional development courses for the academics provided by TLC in FY 2018:

1. Panopto Training
2. Moodle Training
3. Philosophy in Education
4. Curriculum Design at Higher Education
5. Management of Teaching and Learning in the New Millennium
6. Teaching and Learning Practices
7. Educational Technology Innovations
8. Assessment in Learning
9. Research in Teaching and Learning
10. The Professional Educator

The workshops conducted in 2018 continued with the use of technology in the classroom. However, the main highlight was on training new lecturers. PIP3 was conducted at both Putrajaya and Muadzam campuses with the set of basic pedagogical courses as outlined above. A total of 45 lecturers attended the courses and were awarded the certificate of completion. In these courses, the student-centred learning and the use of technology in teaching and learning are emphasised.

In regards to the Blended Learning (BL) initiative, to date, licences subscribed and renewed are Panopto and Powtoon. In addition, a total of 12 PBL classrooms are now ready for use in both campuses. For material development purposes, our state-of-the-art IT equipment is also ready for use at the main recording studio, self-access studios as well as at the BL Operational Lab. With these recent developments, UNITEN is set to equip the future millennials with rich learning experiences that celebrate Education 4.0.



TLC

- 1 BL Operational Lab
- 2 Moodle Training
- 3 Philosophy in Education Workshop
- 4 Management of T&L in the New Millennium
- 5 Curriculum Design at Higher Education Workshop
- 6 Teaching & Learning Practices Workshop
- 7 Assessment in Learning
- 8 The Professional Educator
- 9 BL Self-Access Recording Studio
- 10 Educational Technology Innovations

ACADEMIC OVERVIEW

UNITEN offers courses which suit the needs of both local and international students starting from foundation studies to PhD level. Among the courses include:

- Accounting
- Business Studies
- Computer Science
- Engineering
- Finance
- Information Technology

These courses are taught by capable and professional academicians who possess relevant expertise. The courses are tailored to meet the need of today's market and are monitored to ensure the courses fit the MOHE standards. Besides delivering quality education, UNITEN also strives to enrich learning experience through BL and a conducive study environment, among others. UNITEN also equips its students with the necessary soft skills to secure jobs upon graduation. This is done through their participation in extra-curricular activities such as sports and debates.

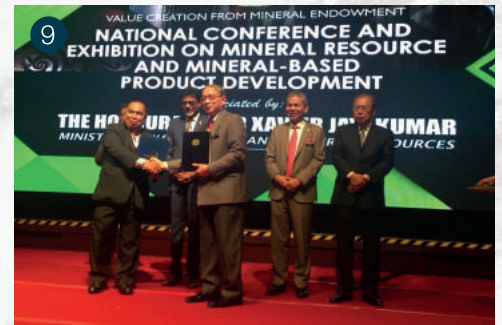
Besides the courses listed above, UNITEN also offers special programmes and short courses such as:

- UNITEN Master of Business Administration (MBA-LDC)
- Executive Degree in Engineering Technology
- Executive Degree in Management
- HAPUA WG5-Performance Management
- HAPUA WG5-Developing Interactive Learning Environment for Effective HRD
- HAPUA WG5-Strategic Corporate Communication Workshop
- Android Application Development



MEMORANDUM OF UNDERSTANDING (MoU)

The Memorandum of Understanding (MoU) between UNITEN and other institutions intends to promote mutual cooperation in several fields such as education.



- 1 MoU Signing Ceremony with MicroMultiCopter Aero Technology (MMC), China (25 January 2018)
- 2 MoU Signing Ceremony with Universiti Teknologi Brunei (UTB) (7 February 2018)
- 3 MoU Signing Ceremony with Institute of Energy Economy Japan (IEEJ) (20 March 2018)
- 4 MoU Signing Ceremony with Tashkent Finance Institute, Uzbekistan (12 April 2018)
- 5 MoU Signing Ceremony with JAKIM (31 May 2018)
- 6 MoU Signing Ceremony with Nakasuka Laboratory, University of Tokyo (28 June 2018)
- 7 MoU Signing Ceremony with the Department of Statistics Malaysia (6 July 2018)
- 8 MoU Signing Ceremony with Estream Software Sdn Bhd (3 October 2018)
- 9 MoU Signing Ceremony with Department of Mineral & Geoscience Malaysia (JMG) (29 November 2018)

RESEARCH & DEVELOPMENT

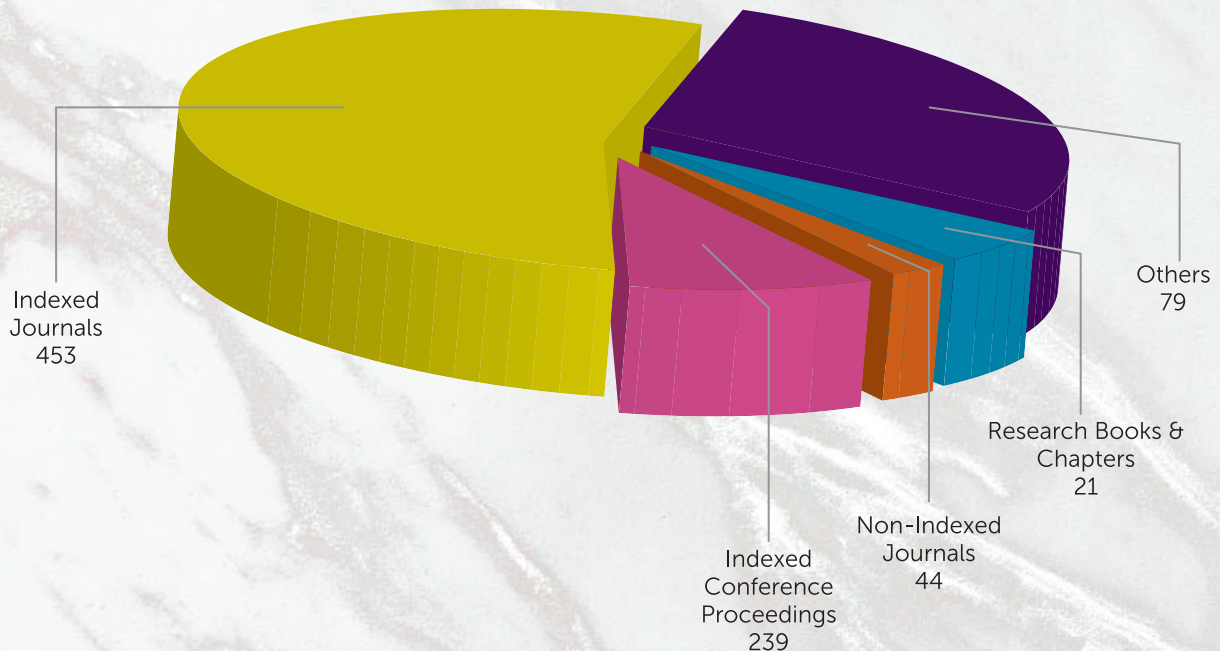
ANNUAL REPORT 2018

UNITEN is committed to becoming a globally competitive and energy-focused university. Energy focused projects such as solar and biodiesel powered vehicles are currently being developed in order to achieve our goal by 2020. In addition, the 2016-2020 Research Roadmap has clearly identified worthy research areas that will keep UNITEN competitive and relevant.

UNITEN is keen to identify opportunities, research and programmes that correspond to the long term needs of its stakeholders. More than RM100 million research grants and consultancy projects have been secured by UNITEN researchers so far.

▀ PUBLICATION

UNITEN disseminates its research activities through a variety of media for the purpose of knowledge sharing and increasing university reputation. In 2018, UNITEN produced Indexed Journals, Non-Indexed Journals, Indexed Conference Proceeding, Research Books and Chapters, and others.



Total : 836

AWARDS AND COMPETITIONS

UNITEN researchers work towards achieving the key agenda of UNITEN through research which is clearly worded in its mission, “We strive to advance knowledge and learning experience through research and innovation that will best serve human society”. To translate this mission into operation, UNITEN keeps creating success stories through innovative research especially in energy. In 2018, UNITEN researchers bagged 14 gold medals, 20 silver medals and three bronze medals in the 28th International Invention, Innovation & Technology Exhibition (ITEX 2018). Meanwhile, in the Seoul International Invention Fair (SIIF) 2018, UNITEN researchers secured one gold medal & special award from Thailand, one silver medal & special award from Korea Invention New and two bronze medals.

28th International Invention, Innovation & Technology Exhibition (ITEX 2018)

i. GOLD WINNERS

No.	Project Leader	Product
1	Dr. Firas Basim Ismail	Design and Development of Mini Hydro Turbine Operating With Harvested Rainwater For In-House Power Generation System
2	Dr. Mohd Hafiz Zawawi	Solar Powered Water Treatment Device (SWAD)
3	Sami Salama Hussien Hajjaj	A Centralized Flood Monitoring and Mitigation System through the Internet of Things (IoT)
4	Adzly Anuar	Medical Bed for Easy Transfer of Disable and Elderly Person
5	Intan Nor Zuliana Baharuddin	Satellite Imagery and Virtual Reality Integration for Asset Management System (SIVIRAMS)
6	Prof. Dr. M A Hannan	Lithium-ion Battery State of Charge Estimation using ANN based Optimization in EV Applications
7	Prof. Dr. Hanim Salleh	Triboelectric Hybrid Generator for Self-Powered Sensor
8	Prof. Dr. Manjit Singh Sidhu	My Dance Analysis Studio (MyDAS)
9	Rajina M A Raj Mohamed	Air Ventilation using Thermal Comfort
10	Dr. Mohd Nur Ruzainy Alwi	OASIS™ : Socio Development Monitoring System of Orang Asli
11	Assoc. Prof. Dr. Zainon Mat Sharif	Semi-Automated Filling Machine for Semi-Aqueous (Semi-Liquid Product)
12	Assoc. Prof. Dr. Zainon Mat Sharif	Goat/Sheep Holding Cage Slaughtering System
13	Assoc. Prof. Dr. Zainon Mat Sharif	Semi-Automated Filling Machine for Mulberry Juice
14	Suzaida Bakar	SURVIVOR: Firms Financial Distress Early Warning System

ii. SILVER WINNERS

No.	Project Leader	Product
1	Daud Mohamad	High Performance Self-Curing Concrete using Hydrogel Polymer Diapers
2	Dr. Salmia Beddu	Characterisation Analysis and Separation Methods of Fly-ash Cenospheres from Malaysian Coal-Fired Power Plant Unit.
3	Dr. Agusril	Drink Cans and Polypropylene Fibers Reinforced Concrete
4	Rasyikin Roslan	Albedo Coating for Reducing Environmental Heat (ACREH)
5	Dr. Meenaloshini a/p Satgunam	Development of A Bioactive and Biocompatible Wollastonite based Ceramic for Bone Tissue Engineering
6	Dr. Jehana Ermy Jamaluddin	Flash Flood Monitoring System using IoT at Sungai Langat
7	Dr. Hassan Mohamed	Senslar-Smart Sensitive Solar Floating Platform
8	Dr. Tiagrajah V. Janahiraman	Optimal Cutting Parameters Selection System
9	Norhazwani Abd Malek	Mini Portable Cooler (MIPOCO) for Breastmilk Storage
10	Assoc. Prof. Dr. Mohd Azree Bin Idris	Development of an Online Learning System (Confirm A) for Implementation in Schools
11	Nur Liyana Mohd Kamal	Encapsulated Coal Bottom Ash
12	Dr. Asmidar Abu Bakar	PrivacyMask: A Privacy Preserving Application for Sensitive Data
13	Assoc. Prof. Dr. Wahidah Hashim	Cognitive Networks Intelligent Modem
14	Raja Feninferina Raja Azman	Endure
15	Raja Feninferina Raja Azman	My Guardian
16	Raja Feninferina Raja Azman	NonturnOWL
17	Dr. Fiza Abdul Rahim	Motion Activated Security Camera using Raspberry PI
18	Rajina M A Raj Mohamed	Food Freshness Detection using Gas Sensor Arrays
19	Assoc. Prof. Dr. Zainon Mat Sharif	Eco-Innovation Mosquito Repellent Candle and Mist Diffuser
20	Dato' Prof. Ir. Dr. Norashidah Md Din	Highly Sensitive Compact Metamaterial-Based Energy Harvesting System with Wide-Band Performance

iii. BRONZE WINNERS

No.	Project Leader	Product
1	Assoc. Prof. Dr. Wahidah Hashim	Simultaneous Signal Quality Reader
2	Assoc. Prof. Dr. Salman Yussof	Smart Retrieval Engine using Ontology and Knowledge Representations for Flood Management
3	Rusli Abdul Roni	Internet Halal Reporting Index (i-Halal)

Seoul International Invention Fair (SIIF) 2018

i. GOLD WINNER & SPECIAL AWARD FROM THAILAND

No.	Project Leader	Product
1	Prof. Ts. Dr. Manjit Singh a/l Basant Singh	My Dance Analysis Studio (MyDAS)

ii. SILVER WINNER & SPECIAL AWARD FROM KOREA INVENTION NEW

No.	Project Leader	Product
1	Dr. Mohd Hafiz Zawawi	Solar Powered Water Treatment Device (SWAD)

iii. BRONZE WINNERS

No.	Project Leader	Product
1	Adzly Anuar	Medical Bed for Easy Transfer of Disabled and Elderly Person
2	Suzaida Bakar	SURVIVOR: Firms Financial Distress Early Warning System

RESEARCH GRANTS

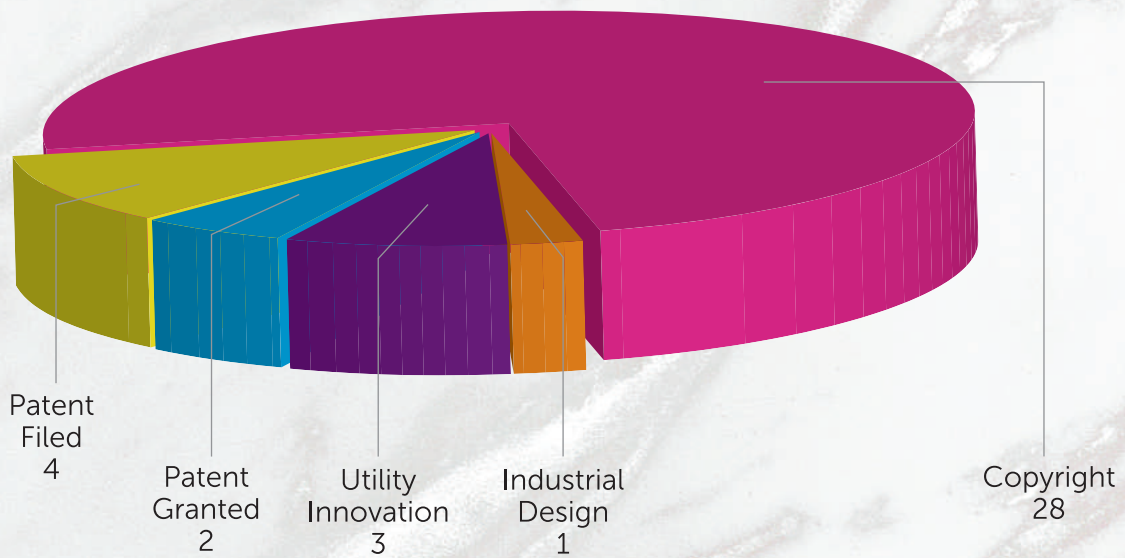


Total : RM8,156,074



INTELLECTUAL PROPERTY

Two patents were granted and four patents were filed in 2018. Other IPR such as Copyright, Industrial Design and Utility Innovation were also granted to UNITEN.



Total : 38



Patent Granted

STAFF NAME	PATENT ID / NO.	PATENT NAME	DATE FILED	DATE GRANTED
Ramesh Singh	PI20043325	A Method for Manufacturing Hydroxyapatite Bioceramic	16-Aug-04	14-Aug-18
Norashidah Md Din	PI2010000311	Fluctuation Correction Algorithm for K- Nearest Neighbor Location Fingerprint Indoor Positioning Systems	21-Jan-10	25-Apr-18

Patent Filed

STAFF NAME	FILING ID / NO.	FILING NAME	DATE FILED
Goh Chin Hock	PI 2018701186	Wireless Electrical Energy Transfer System	23-Mar-18
Gasim Hayder Ahmed Salih	PI 2018702581	Assembly for Suspending BioCarriers in Aeration Tank for Biological Wastewater Treatment	24-Jul-18
Rohayu Che Omar	PI2018703071	A Biological Coating Composition	30-Aug-18
Manjit Singh Sidhu	PI 2018002183	A Technology Assisted Problem Solving System and Method Thereof	28-Nov-18

Other Intellectual Property Rights

STAFF NAME	ISBN OR IP ID / NO.	NAME OF IP	TYPE (COPYRIGHT, TRADEMARK, INDUSTRIAL DESIGN, ETC..)
Manjit Singh Sidhu	AR2018001999	Virtual Dance Communicator Ver.2.0 - Artistic	Copyright
Manjit Singh Sidhu	SR2018002002	Virtual Dance Communicator Ver.2.0 - Sound Recording	Copyright
Manjit Singh Sidhu	FM2018002004	Virtual Dance Communicator Ver.2.0 - Film	Copyright
Rajina M A Raj Mohamed	LY2018002000	C-coding of Food Freshness Detection	Copyright
Asmidar Abu Bakar	LY2018002001	Privacy Preserving Technique for Smart Metering Data	Copyright
Marini Othman	LY2018002530	Governance of Flood Management (GFM) Framework	Copyright
Rajina M A Raj Mohamed	LY2018002532	Coding of Adjusting Indoor Temperature Based on Human Body Temperature Detection	Copyright
Rajina M A Raj Mohamed	LY2018002531	Coding of Wrist Sensors for Detecting Human Body Temperature	Copyright
Nurul Nadiah Ahmad	LY2018004526	i-Green Governance Accountability System (i-GGAS)	Copyright
Badariah Solemon	LY2018005168	Aplikasi Pendaftaran Asset TNB untuk Telefon Pintar Android : Manual Penggunaan	Copyright

STAFF NAME	ISBN OR IP ID / NO.	NAME OF IP	TYPE (COPYRIGHT, TRADEMARK, INDUSTRIAL DESIGN, ETC..)
Lariyah Mohd Sidek	LY2018004856	Flood Frequency Analysis (FFA) Software	Copyright
Lariyah Mohd Sidek	LY2018004857	Flow Duration Curve (FDC) Software	Copyright
Lariyah Mohd Sidek	LY2018004858	Firm an Energy Generation (FEG) Software (EmPower 1.0)	Copyright
Lariyah Mohd Sidek	LY2018004859	Rating Curve Creator (RCC) Software	Copyright
Badariah Solemon	LY2018004860	TNB Asset Tracking Mobile Application for Android Mobile Phone : User Manual	Copyright
Nurul Asyikin Mohamed Radzi	LY2018004861	Contextual Aware Traffic Scheduling Algorithm for Smart Grid Application	Copyright
Badariah Solemon	LY2018004862	Viewing and Downloading Satellite Images Application	Copyright
Badariah Solemon	LY2018004863	ViGMAS Information System (VIS) : User Interface	Copyright
Hazleen Aris	LY2018004864	Integrated Research Data & Reporting System (IdRIS) - MyRA Section B	Copyright
Hazleen Aris	LY2018004865	Integrated Research Data & Reporting System (IdRIS) - MyRA Section C	Copyright
Badariah Solemon	LY2018005166	Aplikasi Pendaftaran Asset TNB untuk Telefon Pintar iOS : Manual Pengguna	Copyright
Badariah Solemon	LY2018005390	mySIGHT:TNB Asset Tracking Mobile Application for Android Mobile Phone - Android and iOS	Copyright
Badariah Solemon	AR2018005391	TNB Asset Tracking Mobile Application for Android Mobile Phone - User Interface	Copyright
Inaliah Mohd Ali	LY2018005392	Water Risk Indicator System (WaRIS)	Copyright
Hazlinda Hakimie	LY2018006404	Flood Tales	Copyright
Hazlinda Hakimie	LY2018006405	Operation Flood	Copyright
Umi Kalsom Masrom	LY2018005974	My Resume App	Copyright
Prajindra Sankar Krishnan	AR2018007104	e-Worksheet for Undergraduate Lab Experiment	Copyright
Zainon Mat Sharif	MY 18-E0123-0101	Industrial Design - Animal Restraint Slaughter Box, CLASS 30-99 & 31-00	Industrial Design
Ker Pin Jern	UI 2018001227	Portable Optical Sensing Device for Determining Inhibitor Content in Power Transformer	Utility Innovation
Zainon Mat Sharif	UI 2018702917	Composition of Mosquito Repellent Comprising Essential Oils	Utility Innovation
Hanim Salleh	UI 2018000827	Multipurpose Ambulatory and Mobility Device	Utility Innovation

RESEARCH HIGHLIGHTS



Prospects of Solar Photovoltaic Energy Technologies

16 March 2018

This seminar and discussion introduced the various segments in Solar Energy R&D scopes to let existing academicians and researchers of UNITEN to align themselves in collaborative efforts to become competent researchers over time. It aimed at facilitation of intra and inter-disciplinary collaboration among UNITEN academicians to take further to other national and international collaboration arena in related fields. Generally, the objective was to believe and begin our effort in Solar Energy as one of the most potential alternative energy resources in both national and global energy scenarios.



3MT 2018

27 March 2018

3MT competition cultivates students' academic, presentation, and research communication skills. Presenting in a 3MT competition increases their capacity to effectively explain their research in three minutes, in a language appropriate to a non-specialist audience. The 3MT UNITEN competition was conducted on 27 March 2018. The students were then selected to represent UNITEN in the final 3MT Competition at UTP on 27 June 2018.



Best Presenter Award at IPN Conference 2018

20 – 22 April 2018

Dr. Noriza Mohd Saad won the Best Presenter Award at IPN Conferences 2018 held in Seoul, Korea. She is a Senior Lecturer at the Department of Finance and Economics and a member of Institute of Energy Policy and Research (IEPR). This success serves as a testament that UNITEN lecturers and researchers have the potential to shine at national and international levels.

Research Hub

25 April 2018

UNITEN Research Hub was officially launched in 2018 which comprises six research entities namely the Institute of Power Engineering (IPE), the Institute of Sustainable Energy (ISE), the Institute of Energy Policy & Research (IEPR), the Institute of Informatics & Computing in Energy (IICE), the Institute of Energy Infrastructure (IEI) and the Innovation & Research Management Centre (iRMC). The establishment of this hub defines the determination of UNITEN in producing cutting-edge research that will best serve the society. The hub also highlights opportunities, research and programmes that corresponds to the long-term need of the university's stakeholders.



Writing Research Proposals

16 May 2018

COE conducted a Writing Research Proposal workshop for its staff to enhance their research skills. The academic staff had gained first-hand insights to research proposal writing through the speaker's quick and detailed explanations. His vast experience in the area of power electronics was very useful in guiding the staff on writing good proposals for grant submissions. Some of the proposals were analysed on the spot and they managed to get direct inputs from him.



Public Lecture - Resilient and Smart Power Grid for Reliable and Sustainable Operations

10 August 2018

A public lecture was organised by IPE, iRMC and COE on the 10 August 2018 and was delivered by the IPE's Strategic Hire Professor, Prof. Ir. Dr. Mohd Zainal Abidin Abd Kadir. The lecture distilled the fundamental aspects of power system transformation, taking into account the current challenges and benefits to various parties, global outlook on energy investment and current progress on energy development.

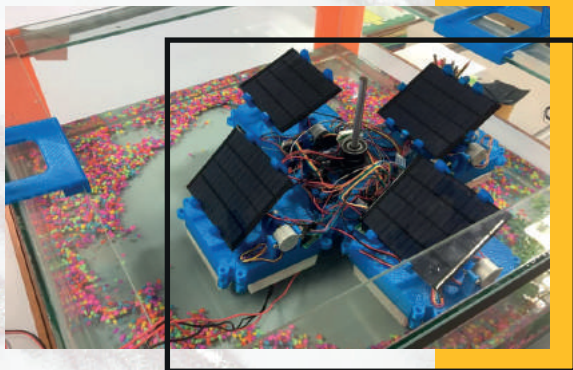




International Graduate Conference on Energy, Engineering and Technology (iGRAD2018)

4 – 6 September 2018

iGRAD2018 serves as a platform for graduate students to share their research with their peers and colleagues, and to get valuable feedback on their research. The technical programme comprised three keynote speeches, 175 technical paper presentations and three pre-conference workshops. iGRAD2018 was officiated by YBhg. Dato' Seri Ir. Dr. Zaini Ujang, who also delivered his keynote speech. Ir. Dr. Hafizal Mohamad from MIMOS Berhad and Prof. Ir. Dr. Izham Zainal Abidin from COE were also the keynote speakers at iGRAD2018. The sponsors for iGRAD2018 were TNB, NanoMalaysia Berhad and Tekmark Sdn. Bhd.



Smart Sensitive Solar Floating Platform (SENSLAR)

5 September 2018

Dr. Hassan Mohamed, Senior Lecturer, Department of Mechanical Engineering was the National Winner of the James Dyson Award for the product Smart Sensitive Solar Floating Platform (SENSLAR) in 2018. SENSLAR is a floating platform system that can smartly move according to the sun's position. It offers more than 40% improvement in energy harvesting and effective use of underutilised lakes. The research team consists of Irwan Nizam Ismail, Hassan Mohamed, Muhammad Faris Mohamad Rosle, Muhammad Aidil Aizad Kamarulsahar, Muhammad Nur Adha Arimi, Muhammad Haiqal Aznan, Ahmad Zulfadhli Dzulkifli.



The Institution of Engineering and Technology 2018 (IET2018) Achievement

22 September 2018

During the Institution of Engineering and Technology (IET) Prestige Lecture Award Dinner 2018 that was held in Sheraton Imperial KL, UNITEN lecturers were awarded the following awards:

1. Prof. Ir. Dr. Vigna Kumaran Ramachandramurthy – IET Achievement Award 2.
2. Assoc. Prof. Ir. Dr. Nadia Tan Mei Lin – IET Young Engineer Award

ENDOWMENT

ANNUAL REPORT 2018

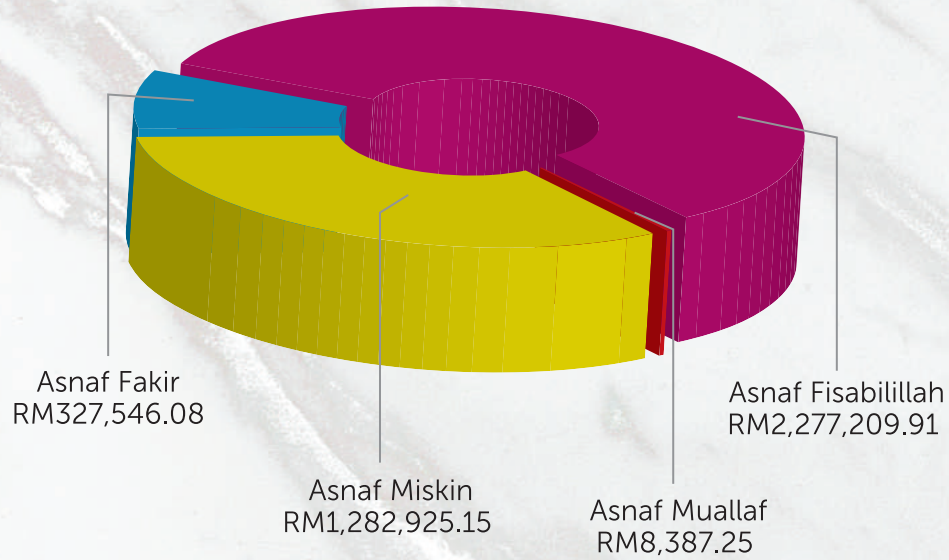
As the charity and investment arm of UNITEN, Yayasan Canselor Universiti Tenaga Nasional (YCU) is committed to developing the nation, one step at a time, through its contribution to society by improving the socio-economy, especially through high impact research and high quality education. All contributions or donations to YCU are tax deductible under Section 44 (6) of Income Tax Act 1967.

YCU managed to raise RM2,677,686.00 for the year 2018. RM975,013.00 was spent in the same year. The pool of fund is collected mainly from philanthropies and corporate companies, via YCU annual events such as YCU Endowment Fundraising Dinner and YCU Charity Golf Tournament. A monthly salary deduction scheme, for the staff of TNB and its subsidiaries, named *Skim Potongan Gaji* (SPG) was also introduced to gather funds for the same purpose. There are a total of 516 monthly contributors, which consist of UNITEN and TNB staff, amounting to RM126,423.50.

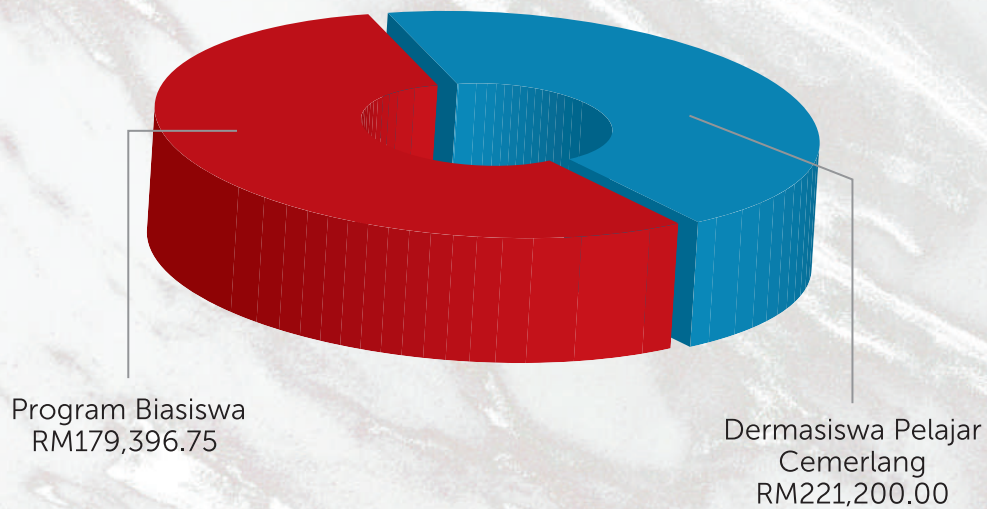
Tabung Amanah Zakat UNITEN (TAZU), another financial arm of UNITEN, carries out the duty of the Assistant Amil of Lembaga Zakat Selangor (LZS) which enables the University to collect and distribute Zakat in order to contribute to the development of human society. TAZU manages and regulates all matters in a transparent manner in regard to collection, administration and distribution of Zakat. In 2018, TAZU collected RM8,954,272.93 of Zakat over the counter and via staff salary deduction scheme. TAZU distributed RM3,896,068.39 to Asnaf Fakir, Miskin, Fisabilillah and Muallaf through sponsorship, subsistence, Go Kitchen programme, students development programme, scholarship, and Aidilfitri assistance for UNITEN students. Meanwhile, UNITEN staff under the same categories received special assistance such as schooling assistance for their children, pocket money and tuition fees to lessen their financial burden. Waqaf initiative launched in the year 2018 has received overwhelming supports from UNITEN staff and community with a total collection of RM92,889.90.

▀ TABUNG AMANAH ZAKAT UNITEN (TAZU)

Disbursement of Zakat

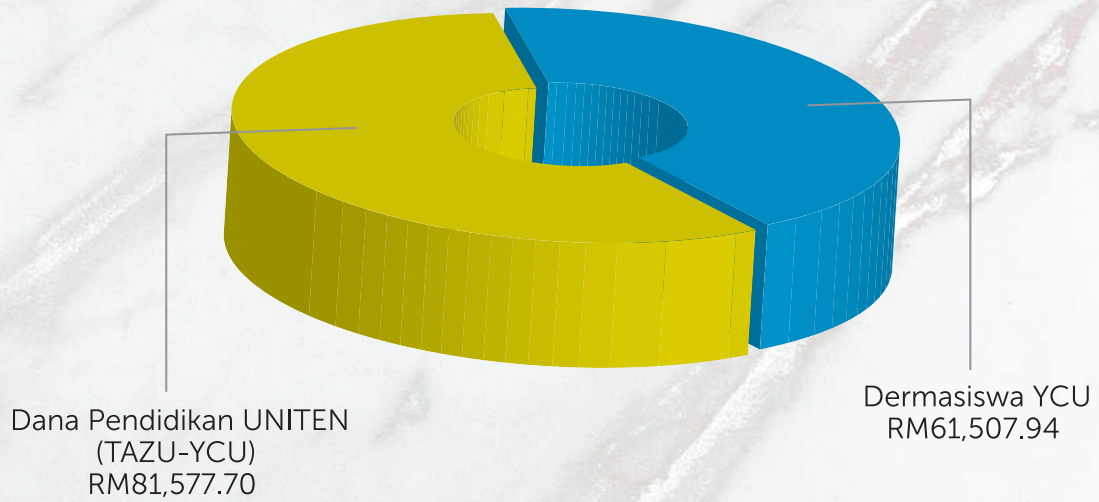


Scholarship and Funding



YAYASAN CANSELOR UNITEN (YCU)

Scholarship and Funding





AFZARUDDIN BURHANUDDIN

Programme : Bachelor of Mechanical Engineering (Hons.) (2009)
Current Position : Director
Company : Ui Trading Sdn Bhd, MCG Adventures Sdn Bhd, LC Animation College
Career Overview : Provide directions and strategic planning for the companies
: Manage more than 10,000 distribution network outlets in Malaysia, including major outlets like Mesra Petronas, Mydin and 7 Eleven
: Create new business ventures through branding, advertising and promotion of company products
: Provide leadership in creating business process management for newly established companies
: Manage VIP tours
College : COE



CHAN PEI LENG

Programme : Bachelor of Information Technology (Hons.) (2004)
: Master of Business Administration (2008)
Current Position : Senior Executive, Digital Ecosystem Enabler
Company : Malaysia Digital Ecosystem Development (MDEC)
Career Overview : Work as an information technologist with responsibilities including business analytics, project management, strategy planning and execution and facilitation and coordination
: Engage with digital start up ecosystem and entrepreneurship in Malaysia and foreign market
: Keep up with local and global emerging technologies and trends
: Participate in local and foreign conferences, seminars, and networking sessions
College : CSIT / COGS



DR. KASTURI DEWI VARATHAN

Programme : Bachelor of Information Technology (Hons.) (2002)
Current Position : Senior lecturer
Company : University of Malaya
Career Overview : Senior Lecturer at the Department of Information Systems, Faculty of Computer Science & Information Technology, University of Malaya
: More than 10 years of experience in data analytics, opinion mining, teaching and research
: Serve as the visiting scientist to the Information Systems Research Group of the Faculty of Informatics, University of Lugano, Switzerland and the Institute of Visual Informatics, National University, Malaysia
College : CSIT

ENGR. MOHAMMED A. AL AQIL

Programme : Bachelor of Electrical Power Engineering (Hons.) (2012)
Current Position : Lecturer
Company : King Faisal University, Saudi Arabia
Career Overview : Received an internship in 2011 as an Electrical Engineer in the Saudi Electricity Company, Qurayyah Power Plant.
: Granted a position in 2012 as an Electrical Transmission Engineer in National Grid, Saudi Arabia soon after graduating from UNITEN with a BSc. in Electrical Power Engineering (Hons.).
: Joined the College of Engineering at King Faisal University in 2014 as a Faculty Member.
: Obtained an MSc in Electrical Power Systems Engineering from The University of Manchester, United Kingdom. (Class of 2015)
: Promoted to the position of Lecturer in 2015 at the College of Engineering at King Faisal University, Saudi Arabia.
: Currently pursuing a PhD course in Electrical Power Systems at The University of Manchester, United Kingdom.
: Appointed as a Researcher & Teaching Assistant in 2016 for three consecutive years at the School of Electrical and Electronic Engineering at The University of Manchester, United Kingdom.

College : COE



IR. ANG PEY CHAR

Programme : Bachelor of Electrical & Electronics Engineering (Hons.) (2002)
: Master of Business Administration (2011)
Current Position : Principle Consultant, Founder
Company : Chayotho Chayolif Sdn. Bhd.
Career Overview : Principal Consultant and Founder of Chayotho Chayolif Sdn. Bhd.
: Inspiring Speaker, Workshop Facilitator, Clinical Therapist, Coach in Neuro Linguistic Programming (NLP) and Time Line Therapy ® (TLT)
: Past positions includes professional engineer in operation & maintenance, commercial and project finance in power generation and rail industries with Malakoff Corporation Berhad

College : COE / COGS



IR. NOOR IZIDDIN ABDULLAH HAJI GHAZALI

Programme : Bachelor of Electrical & Electronics Engineering (Hons.) (2004)
Current Position : Head of Sustainable Energy Development & Technology Council
Company : Medivest Sdn. Bhd.
Career Overview : 15 years of experience in electrical and electronic industry
: Manage more than two dozens of engineers, specializing in engineering project management and energy management
: Researcher at UTM in the area of Energy Optimization Model using total cost of ownership for bad and poor grid
: Work experience in Myanmar, Pakistan, Bangladesh and Sri Lanka from telecom tower industry
: Industry advisory panel and adjunct professor at UMP, UUM, UTHM, UTAR and Manipal University
: Engineering Accreditation Council panel with Board of Engineers, Malaysia (BEM)

College : COE





KAMARUL NIZAM MUHAMMAD

Programme : Bachelor of Mechanical Engineering (Hons.) (2002)
Current Position : Remisier, Stock Broker Representative
Company : Malacca Securities Sdn. Bhd.
Career Overview : 15 years of engineering experience in R&D, automotive, heavy machinery, monorail and oil & gas (subsea)
: Led Engineer for Subsea Equipment project at Murphy Oil Company
: Current position as a remisier/investment consultant
: Current job scope: educate the public on the power of investing, trading, growing the savings and the liberty of having alternate income sources
College : COE



MOHD HASRIL ABDUL HAMID

Programme : Bachelor of Accounting (Hons.) (2003)
Current Position : Director of Research and Publications Division
Company : Southeast Asia Regional Center for Counter Terrorism (SEARCCT), Ministry of Foreign Affairs, Malaysia
Career Overview : Joined the Malaysian Foreign Service and completed Diploma in Public Management at Institut Tadbiran Awam Negara (INTAN) in 2004
: Posted to Embassy of Malaysia as the Charge d'Affaires ad interim in Pyongyang, Democratic People's Republic of Korea
: Posted to Malaysia Permanent Mission to the UN in Geneva, Switzerland as a counsellor of human rights issues
: Appointed as Director of Research and Publications Division at the Southeast Asia Regional Center for Counter Terrorism (SEARCCT), Ministry of Foreign Affairs, Malaysia in 2017
College : COBA



NOAMIFARAH RAHIMUDDIN

Programme : Bachelor of Information Technology (Hons.) (2003)
Current Position : Senior Manager, Innovation Project Delivery
Company : TNB
Career Overview : Presented at CEPSI 2018 on Open Innovation
: Opportunity to meet with Minister of Communication & Multimedia and Works Minister to explain on Maverick and Smart City Project (LENSE)
College : CSIT

PREMILA BALACHANDRAN

Programme : Bachelor of Accounting (Hons.) (2004)

Current Position : Senior Manager, Group Internal Audit

Company : TNB

Career Overview : 5 years of experience in Treasury Department, Group Finance Division and 9 years in Group Internal Audit.

: Roles in Treasury, Group Finance: Monitoring general ledgers, managing settlement activities, banking operations and debt management.

: Roles in Group Internal Audit: Plan, lead and oversee completion of strategic and operational audits of various TNB business units and subsidiaries as approved by the Board Audit Committee (BAC). Audit coverage includes risk assessment, business process controls and compliance with regulatory requirements in areas namely human resource, finance, inventory, asset, revenue management, safety, security, procurement and contract management.

College : COBA



SARAH NAVITA SAMSON DAVANDRAN

Programme : Bachelor of Mechanical Engineering (Hons.) (2009)

: Master of Mechanical Engineering (2011)

Current Position : Senior Equipment Engineer

Company : NXP Semiconductors

Career Overview : Started in Freescale Semiconductors as a fresh graduate in 2010, while completing Masters in Mechanical Engineering in the same year.

: Currently a senior engineer leading the hardware team in test operations, addressing customer issues related to testing and investigating on machine faults.

: Led the team to participate in Reverse Failure Mode Effect Analysis (RFMEA) twice, and won first and second place for two consecutive years

College : COE



SYED SAGGAF SYED AHMAD

Programme : Bachelor of Mechanical Engineering (Hons.) (2002)

Current Position : Chief Executive Officer

Company : Shapadu Energy Services Sdn. Bhd.

Career Overview : 15 years of experience in oil and gas industry

: Specialises in offshore HUC and brownfield projects

: Youngest CEO in Shapadu Group (joined in 2010)

: CEO of Shapadu Energy Services Sdn Bhd since January 2017

: Previous roles: Piping engineer, planning engineer, offshore construction superintendent, senior project manager, general manager & deputy CEO

: Major clients: PCSB, ExxonMobil, Shell, Petrofac, Enquest, Carigali Hess, CPOC, Talisman, PCPP, etc

College : COE



**PHASE 1 (2016-2018)
NATIONAL
LEADER**



Top teaching university in Malaysia – SETARA Tier 6 Outstanding



Established **research collaborations with world-class institutions** (e.g. Oxford Institute of Energy Study)



>1,500 students touched by first 7 blended learning courses



Internet speed upgraded to 10GB – highest in Malaysia



Fundraising and industry partnership functions launched,



First intake for multidisciplinary programme



Entrepreneurship Programs launched



Multi-career track talent development pathways

**PHASE 2 (2019-2021)
REGIONAL
LEADER**



Improved ranking – Top 200 in QS Asian Ranking



Improved ranking – Top 200 in QS World by Subject – Engineering & Technology



6 leading local and international faculty recruited as strategic hires



Top university with adaptive blended learning technology



Increased international students to 11%



New building featuring open concept lab for research and teaching completed



Higher Institution Centre of Excellence (HICOE) status in energy security

**PHASE 3 (2022-2025)
GLOBAL
CHAMPION**



Improved ranking – Top 150 in QS World by Subject – Engineering & Technology



Partnering with top employers 35 of top 50 employers in Malaysia to recognize UNITEN as provider-of-choice



Excellent value creation via innovation, Intellectual Property and commercialisation



International center of specialization in future energy supply, transport and utilisation



~RM104 mil cumulative gains in donations and sponsorships (from 2016)



~RM165 mil cumulative additional research grants and consultancy revenue (from 2016)

2019 : Shifting the Gear

Three years have passed. UNITEN is ready to implement its second phase of BOLD 2025. TNB has approved RM95 million OPEX for 2019-2021 for UNITEN to carry out Phase 2 of BOLD2025. With physical infrastructure updates mostly in place, UNITEN is directing its focus towards enhancing talent development in research, as well as continuing to deliver exceptional teaching and learning environment. In terms of financial sustainability, UNITEN will continue our effort to diversify revenue streams.

Talent in Research

The three professors hired under the Strategic Hires Initiatives have been leading several research groups in UNITEN, and giving training and guidance to academic staff in UNITEN in the energy fields. UNITEN aims to have 78% of its academic staff becoming principal investigators/projects leaders through knowledge sharing sessions by visiting professors, and coordinated initiatives rolled out under five research institutes namely IEPRe, IPE, ISE, IEI, IICE; together with iRMC and UNITEN's consultancy arm, UNITEN R&D Sdn. Bhd. These will lead to meeting the target of RM125 million cumulative research grants and consultancy revenue secured by 2019 (since year 2016).

Exceptional Teaching and Learning Environment

In terms of teaching and learning environment, aggressive approaches are being used to ensure all lecturers start to use BL tools in the classrooms, from beginners to advance users. TLC has also appointed BL agents among the academic staff to be guided and trained in applying BL tools until Level 4: Adaptive Learning. This could warrant more enhanced learning experiences for the students in UNITEN.

Diversification of Revenue Stream

Financial sustainability plays an important role in keeping UNITEN in a sustainable manner. Under the Business Development Department (BDD), UNITEN increases its effort to diversify income via two revenue

streams, i.e. rental on UNITEN facilities including sport facilities, auditorium, meeting rooms and seminar rooms; and training and professional courses.

The establishment of YCU, TAZU and Waqaf also contribute towards improving UNITEN financial position, channelling donations and sponsorships for the benefits of UNITEN and its students.

Increase UNITEN branding

To the world, UNITEN wants to be portrayed as a university that enables its students to change the world focusing on Energy. This is done through strategic partnerships with specific targeted schools, expanding recruitment channels locally and internationally, and aggressive marketing via mainstream and social media.

Building Resilience & Holding Tight to Core Values

For 2019, UNITEN has announced that its aspiration is "Mission Possible: Let's be together". This shows that UNITEN is confident that it can overcome all challenges by working together collectively as a team with strong culture and core values; Integrity, Customer Focus, Caring and Team Work.

All these efforts and plan for 2019 will contribute directly towards reaching UNITEN's goal of becoming a regional leader by 2020, UNITEN is set to attain its targeted ranking places in both QS Asian Ranking & THE Asia University Ranking.