

UNIVERSITI  
TENAGA  
NASIONAL



*The National Energy University*

ANNUAL  
REPORT

20  
17









**UNITEN**  
Wisma Sultan Ahmad Shah

# **Annual Report**

UNIVERSITI TENAGA NASIONAL

# **2017**







# Contents

## ANNUAL REPORT | 2017 UNIVERSITI TENAGA NASIONAL

<b>01</b>	Vision & Mission	05
<b>02</b>	University in Brief	06
<b>03</b>	The University Team	08
	<ul style="list-style-type: none"><li>• Chancellor</li><li>• Pro-Chancellors</li><li>• Board of Directors</li><li>• Management Committee</li><li>• UNITEN Organisational Chart</li></ul>	
<b>04</b>	Vice-Chancellor's Review	14
<b>05</b>	2017 Achievement Highlights	17
<b>06</b>	2017 UNITEN Statistics	19
<b>07</b>	Event Highlights	21
<b>08</b>	Academic Overview	32
<b>09</b>	Research, Development, Consultancy & Training	48
<b>10</b>	Student's Achievements	55
<b>11</b>	Endowment	67
<b>12</b>	Moving Forward	74



# 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

*Creative, Innovative & Energetic.*

UNIVERSITI  
TENAGA  
NASIONAL







## University in Brief

Universiti Tenaga Nasional (UNITEN) takes pride in its ability to synergise soft skills with quality education in the fields of engineering, information technology and business management knowledge to prepare professional graduates. The main focus of our integrated education and skills training is to prepare graduates to become individuals with professional and intellectual integrity apart from having relevant knowledge required by the industry.

UNITEN is making a steady progress towards becoming the tertiary education institution of choice in the region. This is partly due to the state-of-the-art infrastructure available on campus coupled with world-class teaching faculties. As a wholly owned university by the utility conglomerate Tenaga Nasional Berhad (TNB), UNITEN aims to emulate the parent company to become a dominant player in the tertiary education industry.

Grooming graduates who are industry-driven is what UNITEN does best. The learning environment in the university fosters creativity and independence - two premium characteristics in the development of top-class graduates. At the university, the students are constantly pushed to the limits to develop resilience and strength in characters. The courses offered help students to be more balanced and holistic. In this respect, the courses are designed with relevant, authentic, and practical advice from various experts from the industry. All courses offered at UNITEN are certified by the Malaysian Qualifications Agency (MQA). In addition, engineering courses are accredited by the Engineering Accreditation Council Malaysia (EAC).

The engineering and accounting courses offered are recognised by professional bodies such as the Board of Engineers Malaysia (BEM), the Institution of Mechanical Engineers (IMechE), the Institution of Civil Engineers (ICE), the Malaysian Institute of Accountants (MIA), the Institute of Chartered Accountants in England and Wales (ICAEW) and the Association of Chartered Certified Accountants (ACCA), among others. The total number of courses offered at UNITEN increases gradually in line with the development and demands of the industry. As a self-accredited institution, UNITEN emphasises on high quality programmes, practical and internationally recognised courses that are delivered by dedicated professionals who are experts in their respective fields with many years of research experience as well.











## The University Team

### Chancellor



**Tuan Yang Terutama  
Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman Bin Haji Abbas**  
Yang di-Pertua Negeri Pulau Pinang



**Pro-Chancellors**



**Tan Sri Leo Moggie**

**Academician  
Tan Sri Dr. Ir. Ahmad Tajuddin Ali**



## Board of Directors



- 1. Tan Sri Datuk Ir. Dr. Hj. Ahmad Zaidee Laidin, FASc
- 2. Dato' Ir. Mohd. Yusof Ibrahim, FASc

- 3. Tan Sri Leo Moggie
- 4. Datuk Seri Ir. Azman Mohd
- 5. Mr. Nazmi Othman



- 6. Dato' Muhammad Razif Abdul Rahman
- 7. Dato' Prof. Dr. Rujhan Mustafa

- 8. Ms. Norina Jamaludin
- 9. Dato' Seri Ir. Dr. Zaini Ujang
- 10. Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha



## Management Committee



1. **Dato' Prof. Ir. Dr. Norashidah Md. Din**  
Dean, College of Graduate Studies
2. **Prof. Dr. Bahisham Yunus**  
Chief Business Development Officer
3. **Prof. Dr. Mohd. Zamri Yusoff**  
Deputy Vice-Chancellor  
(Student Affairs & Alumni)
4. **Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha**  
Vice-Chancellor
5. **Dato' Prof. Ir. Dr. Ibrahim Hussein**  
Deputy Vice-Chancellor  
(Academic & Research)
6. **Prof. Dr. Salina Daud**  
Deputy Vice-Chancellor  
(Sultan Haji Ahmad Shah Campus)
7. **Prof. Dr. Siti Salbiah Mohamed Shariff**  
Deputy Vice-Chancellor  
(Management & Development)





## Management Committee



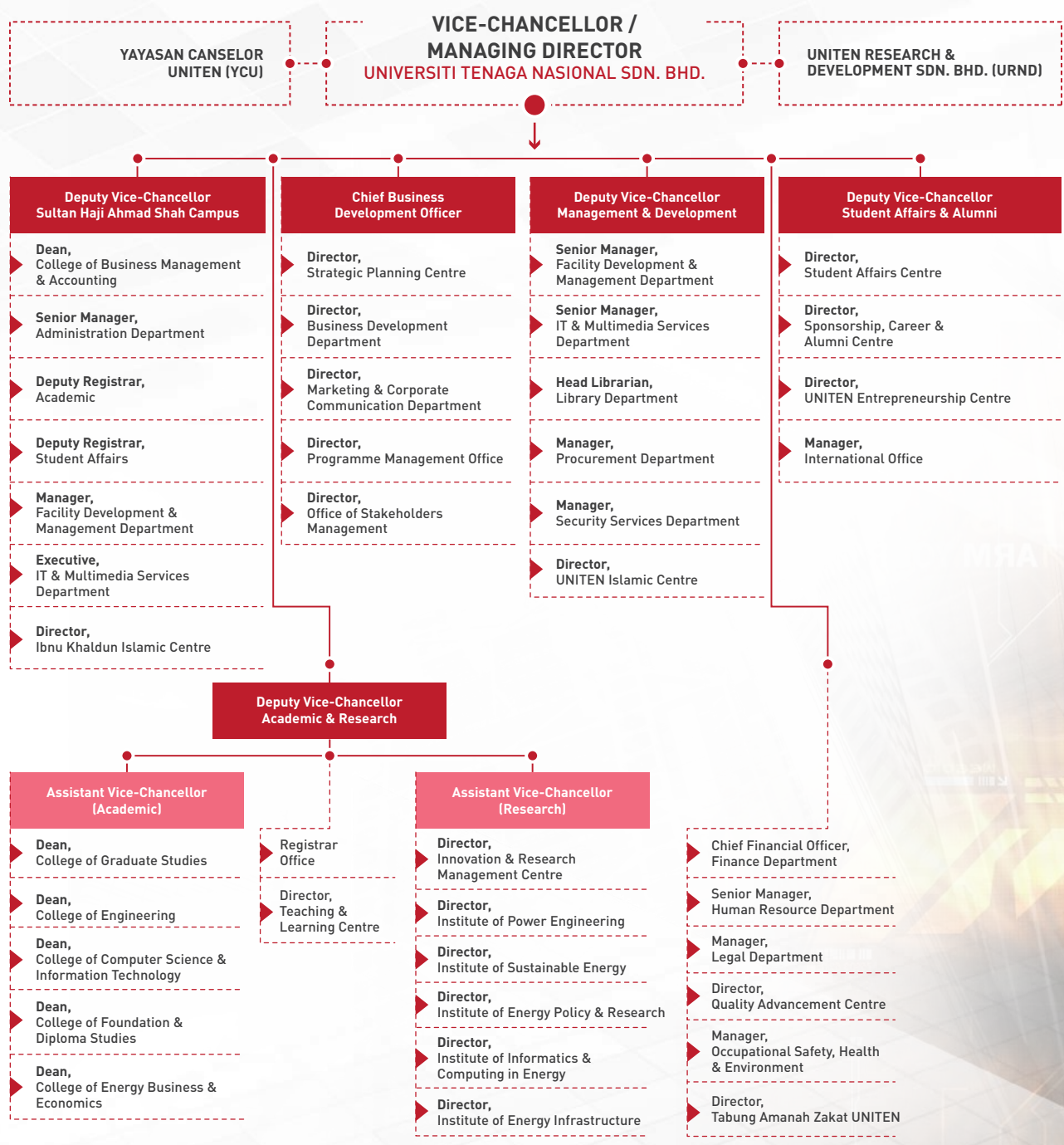
8. **Ms. Fairuzana Haneem Mohamed Ali**  
Chief Financial Officer
9. **Prof. Dr. Abu Bakar Musa**  
Dean, College of Foundation and Diploma Studies
10. **Prof. Dr. Izham Zainal Abidin**  
Dean, College of Engineering
11. **Prof. Dr. Zainuddin Hassan**  
Dean, College of Computer Science and Information Technology
12. **Assoc. Prof. Dr. Bakhtiar Alrazi**  
Dean, College of Business Management and Accounting
13. **Hj Faizul Abdul Raof Faiz**  
Senior Manager, Human Resource Department
14. **Mr. Zulkarnain Md Nor**  
Registrar







# UNITEN Organisational Chart







## Vice-Chancellor's Review

The aspiration to be a leading global energy university by 2030 has been the ultimate driver for UNITEN to strategise and leverage its strengths in order to be acknowledged as one of the finest institutions of higher learning at the international stage. The uniqueness of UNITEN lies within its workforce with unwavering commitment in transforming this beloved institution that will best serve human society. I truly believe this kind of level of engagement would strengthen the spirit of togetherness in charting a better and brighter future for UNITEN.

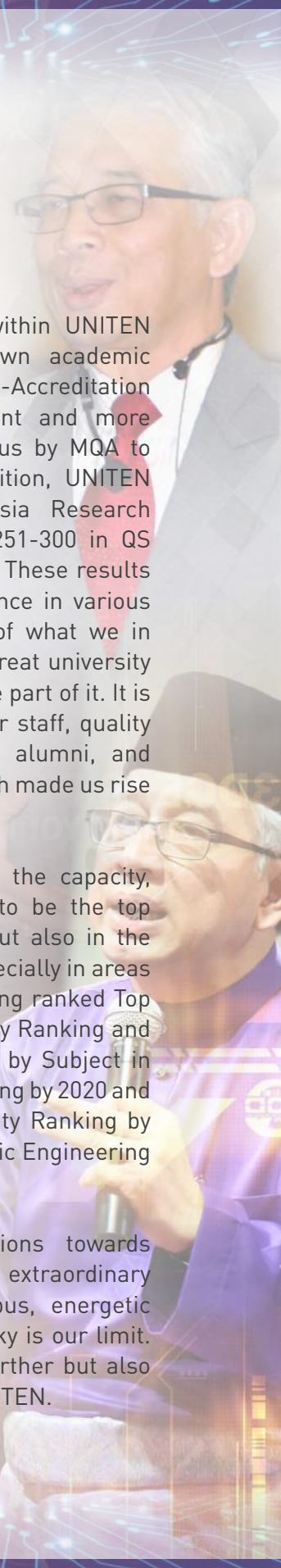
Here at UNITEN, we take pride in producing holistic, entrepreneurial and balanced graduates who will be readily employable through our programmes of study. According to a survey conducted by the Ministry of Higher Education (MOHE), UNITEN graduates secured an overall employability rate of 95% in 2016, with the remaining 5% became job-creators. Testimonies from our stakeholders prove that our graduates are not only academically excellent but are also equipped with the necessary soft skills, values, leadership and ability to think critically which help them to make a smooth transition into the next step of their career. Being granted Tier-5 in SETARA, UNITEN successfully positions itself as a globally competitive energy-focused university. SETARA measures the position of an institution in providing a world class academic, teaching and learning by MQA and MOHE.

We are truly honoured to be amongst the few universities invited by MOHE to participate in Self-Accreditation Assessment. This status is crucial, as it serves as a testament of a reliable quality

assurance system is in place within UNITEN to systematically review our own academic programmes. Obtaining this Self-Accreditation Status implies the empowerment and more importantly, the trust laid upon us by MQA to certify our own courses. In addition, UNITEN has attained 4-star for Malaysia Research Assessment (MyRA) and ranks 251-300 in QS Asian University Ranking in 2016. These results along with our continued excellence in various areas are indeed a recognition of what we in UNITEN know that UNITEN is a great university and all of us should be proud to be part of it. It is purely the sheer hard work of our staff, quality of our students, impact of our alumni, and commitment of our partners, which made us rise rapidly in this ranking.

I truly believe that UNITEN has the capacity, capability and the commitment to be the top university not only in Malaysia but also in the region and at the world stage, especially in areas related to energy, targeting of being ranked Top 200 both in the QS Asian University Ranking and the QS World University Ranking by Subject in Electrical and Electronic Engineering by 2020 and Top 150 in the QS World University Ranking by subject for Electrical and Electronic Engineering by 2025.

Thank you for your contributions towards the continuing success of this extraordinary institution. With a vibrant campus, energetic staff and talented students, the sky is our limit. Together, we will not only look further but also soar upwards for the future of UNITEN.







*Dato' Prof. Ir. Dr.  
Kamal Nasharuddin Mustapha*

Vice-Chancellor  
Universiti Tenaga Nasional



*Creative, Innovative & Energetic.*







## 2017 Achievement Highlights

2017 has been a great year for UNITEN as it embarks on delivering UNITEN BOLD 2025 Strategic Plan. The concerted efforts and commitments from academic, technical, and administrative staff have made it possible for UNITEN to achieve the stipulated milestones as listed in the strategic goals. BOLD 2025 strategic goals have elevated the university higher by focusing on teaching & learning excellence, research excellence, and financial sustainability.

The conferment of SETARA Tier-5 has also raised the position of UNITEN as a globally competitive energy-focused university. SETARA is a rating exercise undertaken at universities and university colleges in Malaysia. Another proud achievement is the Self-Accreditation Assessment granted by MQA that enables UNITEN to certify its own programmes that require accreditation and recognition. The recognitions received by UNITEN are the proof of quality academic programmes and services delivered at the University.

### **#371 in Engineering & Technology in QS World University Rankings by Subjects**

In terms of global university rankings, the university has improved its position to #243 in the QS Asian University Rankings. For the first time ever, UNITEN had entered the QS World University Rankings by subject: Engineering & Technology with the position of #371 in the world and #8 in Malaysia. It was an excellent anniversary gift as it was announced during the university's 20th Anniversary celebration on 9 March 2017. Three subjects namely Electrical & Electronic Engineering, Mechanical Engineering, and Computer Science & Information System were ranked #201-250, #351-400 and #451 - 500 in the world respectively. The university ranking

was further reinforced by the inaugural inclusion of UNITEN in the Time Higher Education (THE) world university rankings at #801-1000. UNITEN is proud to acknowledge that it has been ranked #1 among private universities in Malaysia for the global webometric rankings.

### **Research Fund Secured**

UNITEN has leapfrog in research funding attainment in 2017 compared to the previous years. It secured almost RM 33 million of research funds from TNB and nonTNB sources. In addition, UNITEN also secured research funding from TNB worth RM 23.6 million over the next 5 years on the development of thinfilm solar cell technology and energy storage. One of UNITEN researchers, Prof. Dr. T.M. Indra Mahlia, was recognised as top 1% highly cited researchers in the world (engineering category) and the only one from Malaysia private higher institutions. The university has filed 48 IPs in 2017, a significant increase from the previous years. UNITEN had also launched its Smart UniverCity Project - a collaborative project among TNB, private sectors and UNITEN in June 2017 with more than 20 projects and funding of more than RM 9 million. The project comprises six pillars consist of smart energy, smart connectivity, smart access, smart education, smart mobility, and smart generation. It provides huge opportunity for academics and students to explore and learn using smart technology applications.

### **Creating Exceptional Study Environment**

In order to provide a conducive learning environment, UNITEN has upgraded its physical and digital infrastructures. 2017 witnessed the upgrading of its internet speed to 10Gbps. All classrooms are now equipped with multimedia



facilities with more than 10 classrooms that are designed to adopt problem-based learning approach. Other than that, UNITEN has also introduced blended learning in moving towards IR 4.0 and myHE4.0 in learning delivery. Almost 7,000 students were exposed to blended learning pedagogy in 2017.

The student accommodation in both campuses has been renovated and upgraded to provide more comfortable living environment. This year also sees the introduction of e-bicycle in Putrajaya campus to promote a green and healthy lifestyle among university community.

### High Graduate Employability Rate

The 2017 MOHE tracer study findings revealed that the overall UNITEN 2017 graduate employability rate is at 95%, which is higher than the national average of 79%. Another proud achievement is that the number of 2017 graduates who were employed by private sectors and multinational companies is at 31.35%. The job creators i.e. graduates who started their own business stands at 3.62%. The launching of UNITEN career portal that was also done in 2017 provides a platform for job seekers i.e. students to connect with job providers i.e. employers. The Sponsorship, Career & Alumni Centre (SCA) of UNITEN also launched its alumni portal to reconnect with UNITEN alumni. This portal provides an avenue for UNITEN to engage with alumni and also allows alumni to reconnect with their university mates and contribute back to the university.

Besides obtaining outstanding achievement, UNITEN's women hockey team performed excellently and won the National Women Hockey League TNB MHL in October 2017. Four UNITEN students participated in Women Hockey Event in South East Asia Games 2017 by representing the Malaysia team. The involvement in sports and other activities is vital in developing students' soft skills that will benefit their career path. This

indicates the importance of academic and co-curricular activities in grooming UNITEN students to become potential employees who are not only intelligent but also possess outstanding skills sought after by many companies

### Achieving Financial Sustainability

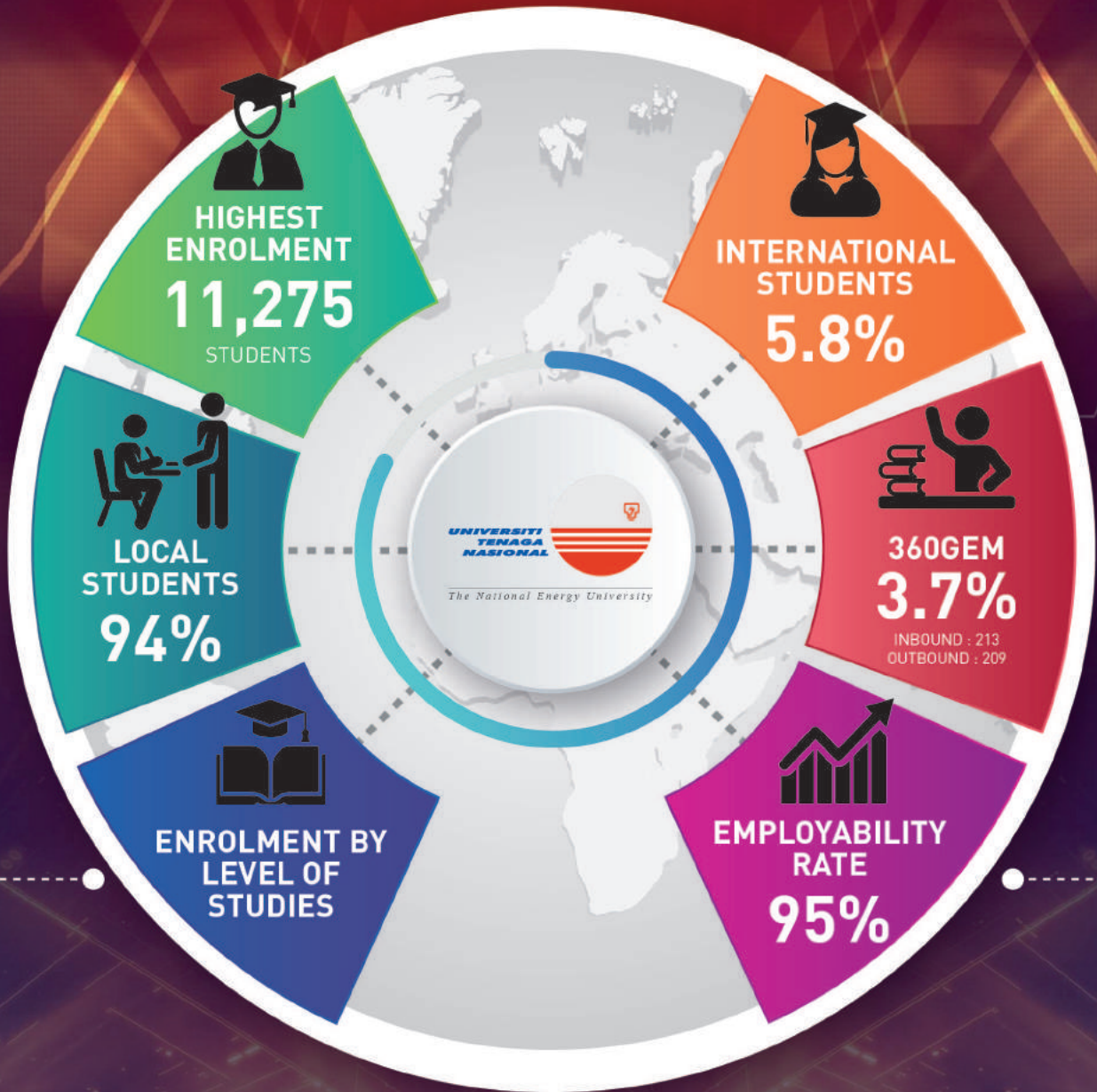
In this very challenging business environment, UNITEN is proud to share that it has achieved financial surplus in its 2017 financial account. In terms of endowment fund, 2017 recorded the highest ever amount of more than RM 20 million from UNITEN endowment avenue namely Tabung Zakat UNITEN (TAZU), Yayasan Canselor UNITEN (YCU) and personal donations. A fund raising dinner, "One night to Remember," managed to raise RM 600,000 for YCU fund.

Looking back at 2017 achievements, unquestionably, they were achieved via concerted efforts and strong commitments from all UNITEN staff with the strong support from UNITEN and TNB top management. BOLD 2025 has certainly transformed UNITEN to become a regional and global champion in energy focused education in 2017.





# 2017 UNITEN Statistics



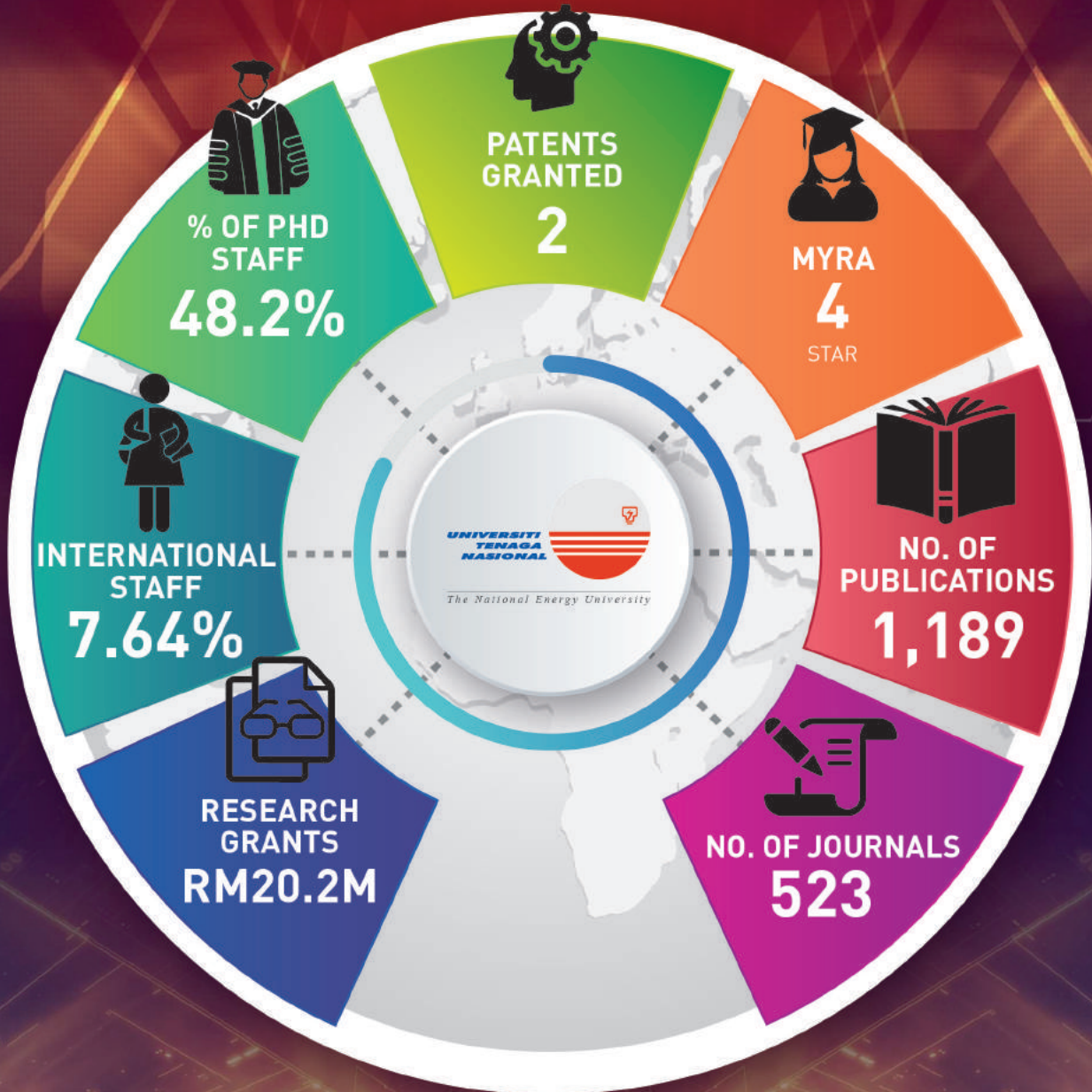
- FOUNDATION 1,075
- DIPLOMA 1,709
- DEGREE 8,378
- MASTER 619
- PHD 261

EMPLOYED BY MNCs AND GLCs 31.35%

GRADUATES BECOME ENTREPRENEURS 3.62%



# 2017 UNITEN ACADEMIC EXCELLENCE







## 2017 Event Highlights

### *1 Perjalanan 1 Destinasi (1P1D)* 30 September - 1 October 2016

UNITEN Strategic Planning Centre (SPC) organised *1 Perjalanan 1 Destinasi (1P1D)* programme as a platform for the university management to present performance reports for the financial year 2016/2017. In addition, UNITEN ICV (Internalising Core Value) Award was presented to business units that have successfully embarked on four core values namely Integrity, Caring, Customer Focus and Teamwork. The Quality Assurance Centre (QAC) also took the initiative to appoint the ICV Core Value Head for Putrajaya campus and ICV agents for each UNITEN business unit in this campus. On the following day, the 1P1D event was held at KSHAS.



### YCU Golf Tournament 15 October 2016

On 15 October 2016, a charity Golf Tournament was organised by Yayasan Canselor UNITEN (YCU). Some notable organisations that took part in this worthy cause were Malakoff Corporation Berhad, Permodalan Nasional Berhad, Sime Darby Property Berhad, Bank Simpanan Nasional, Pahlawan Power Berhad, Prince of Wales International School Penang, Teknologi Tenaga Perlis Consortium, Pembinaan Tajri Sdn. Bhd., IOI Properties, PD Power, TNB Remaco, Powertek Energy Sdn. Bhd., and Koperasi TNB. The establishment of YCU is fundamentally to acquire, administer and distribute funds to facilitate education opportunities for deserving Malaysians.





*Pertandingan Rekacipta & Inovasi  
Institut Pengajian Tinggi Swasta 2016  
(PERINTIS)*  
**15 October 2016**

The 2nd *Pertandingan Rekacipta dan Inovasi Institusi Pengajian Tinggi Swasta* (PERINTIS) was hosted by UNITEN on 16 November 2016 and officiated by UNITEN Chairman, Tan Sri Leo Moggie. PERINTIS is a biennial event that is organised in partnership with the Ministry of Science, Technology & Innovation (MOSTI) and it is fully supported by MOHE, Malaysia. The event attracted a total of 141 participants from both private and public universities, and 28 entries from schools across the nation.



*Sukan MASISWA Zon Timur*  
**10 - 13 November 2016**

UNITEN secured the first place in *Kejohanan Sukan Majlis Sukan Institusi Pengajian Tinggi Swasta* (MASISWA) Zon Timur (SUMZOT) for three years in a row. Participants from UNITEN KSHAS won 16 gold, 10 silver and seven bronze medals in the recent matches. Meanwhile, RANACO Training and Education Institute, and TATI University College obtained second and third place. The opening ceremony of 2016 SUMZOT was completed by the Chairman of the Youth and Sports Committee of Pahang, Datuk Mohd Johari Hussain. A total of 11 contingents representing East Eastern private institutions of higher learning sent nearly 800 athletes to compete in six sport events. Besides being elected to host the event, UNITEN KSHAS has also successfully produced the best athletes. Two UNITEN athletes became the best Sportsman and Sportsman of 2016 SUMZOT who are Mohamad Intidzam Mohd Nor who represented UNITEN in petanque, and Nor Shuhada Rosli who represented UNITEN in table tennis. Both athletes earned two gold medals in individual and group events.





International Forum on Geopolitics and  
Global Energy Landscape: It's Implication  
To Asia (IFGG2016)  
**5 & 6 December 2016**

The International Forum on Geopolitics and Global Energy Landscape: Its Implication to Asia (IFGG2016) took place in UNITEN in 2016. That was the first time such international conference was co-sponsored by the Malaysia Energy Commission, Tenaga Nasional Berhad and Institute of Energy Policy and Research, UNITEN.



GEMA UNITEN Showcase in conjunction  
with UNITEN 20th Anniversary  
**4 January 2017**

The talent of UNITEN students was successfully demonstrated through GEMA UNITEN showcase. This showcase combined 40 musicians, 8 singers, and 10 dancers from four UNITEN performing arts groups under Centre of Student Affairs, namely GemaGamelan, GemaMuzika, GemaSuara and GemaTari. These groups represent the university in competitions and invitation shows including from Tenaga Nasional Berhad (TNB), ministry, government agencies and non-governmental organisations.





## 2017 VC's Aspiration 13 January 2017

The 2017 Vice-Chancellor's Aspiration and new year message was delivered on 13 January 2017 with the theme "2017 Year of Delivery". UNITEN Vice-Chancellor, Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha, inspired the staff to strive to achieve BOLD 2025 milestones for 2017. There was also the launching of UNITEN 20th anniversary celebration during this event.



## International Symposium & Exhibition on Business and Accounting (ISEBA 2017) 1 March 2017

The International Symposium & Exhibition on Business and Accounting (ISEBA 2017) was organised on 1 March 2017 with the theme "Business Sustainability in an Era of Digital Disruption". With the objective of promoting and developing high quality research of all issues related to business and accounting, COBA strived to make the symposium an international forum for academics, researchers and practitioners to enable them to interact, collaborate and share their knowledge and experience. There are many difficult challenges in today's borderless business world. In fact, the rapidly changing business world is before us in our everyday lives. Hence, it is important to set goals, and be quick to seize opportunities and to strive maintaining high expectations of excellence.





## Celebration of UNITEN 20th Anniversary & the Launching of Student Centre 8 March 2017

2017 marks the 20th anniversary of UNITEN celebrating two decades of academic excellence, and research and consultancy achievement. Crossing into a milestone of history, UNITEN has reached exceptional growth and success in graduating 12,000 scholars around the globe. In a short span of time, UNITEN has achieved so much and has contributed to the transformation of the nations in terms of people, ideas, innovations and inventions. The celebration of UNITEN 20th Anniversary and the Launching of Student Centre are as two meaningful events to appreciate the hard work of UNITEN staff and students in upgrading the standard of this university. These meaningful events were officiated by Datuk Mary Yap Kain Ching, the Deputy Minister at MOHE.



## Bakti Siswa 2017 – Mahasiswa D’Hati Rakyat 13 - 16 April 2017

Bakti Siswa 2017 was organised in conjunction with the UNITEN 20th Anniversary Celebration in Kampung Lahar Kepar, Kepala Batas, Seberang Perai. The Student Representative Council (MPP) in collaboration with UNITEN Centre of Student Affairs (HEP) organised this programme with the theme Mahasiswa D’Hati Rakyat as a starting point for UNITEN students to explore life with the rural community. This programme received sponsorship and support from TNB and Tabung Amanah Zakat UNITEN (TAZU).





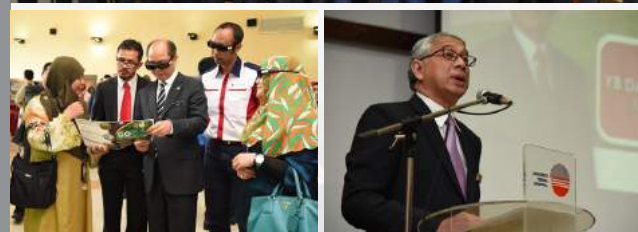
## Hi-Tea: An Evening with Employers 21 April 2017

In the effort to help students securing jobs prior to their graduation, UNITEN Sponsorship, Career & Alumni Centre (SCA) has come out with strategies in organising programmes related to career development. Hence, in conjunction with UNITEN 20th Anniversary Celebration, the university organised a Hi-Tea: An Evening with Employers programme on 21 April 2018 at UNITEN Student Centre to appreciate companies that have contributed to the career development initiatives.



## National Graduate Conference (NATGRAD) 2017 26 April 2017

In conjunction with the UNITEN 20th anniversary celebration, College of Graduate Studies (COGS) organised the 4th National Graduate Conference (NATGRAD) 2017 from 26 - 27 April 2017 at College of Computer Science and Information Technology (CSIT). It was officiated by Datuk Seri Panglima Wilfred Madius Tangau, Minister at the Ministry of Science, Technology and Innovation (MOSTI). The conference included keynote speeches of prominent speakers from the industry, paper presentations and a preconference workshop. It was a highly anticipated conference by most UNITEN postgraduate students that was attended by approximately 300 participants.





## Forum 2nd Young Hydrologist Early Career Event 29 May 2017

2nd Young Hydrologist Event is a yearly event conducted by the Malaysian Hydrological Society for young engineers. The event is an opportunity for all early career hydrologists from academia and industry to showcase their work across a broad range of hydrology related areas. This includes flood risk, rainfall-runoff, urban drainage/hydrology, modelling, coastal hydrology, hydrometeorology, surface hydrology, hydrogeology, drainage basin management and water quality. The 2nd Young Hydrologist Early Career Event enabled participants to empower themselves with the current information and issues within the hydrological world. Participants also had the opportunity acquire the necessary skills to better prepare themselves in facing the ever-challenging nature in the world of hydrology, as well as providing internship opportunities for students. The event ran over a single day consisted of career talks, poster viewings and hydraulic arm contest in the morning. The afternoon session consisted of paper presentations from young hydrologist. Multiple prizes were awarded to the best poster, paper and presentation



## UNITEN Smart UniverCity Kick-Off 7 June 2017

UNITEN Smart UniverCity Kick-Off signifies the starts of the effort of UNITEN to turn its Putrajaya campus into a smart "city" in an effort to create a "smart society". Among the elements of a smart university is to provide a unique campus experience by enriching staff, students and visitors experience through the usage of technology. Besides these, UNITEN plans on creating a micro smart-grid that will also allow the university to generate its own electricity using solar panels and biomass. This will also help reduce our carbon footprint for the whole campus.





Public Lecture - Smart and Sustainable Cities: Policy Options for Energy and Sustainability by Dato' Seri Ir. Dr. Zaini Ujang  
4 July 2017

Public Lecture held in 2017 was a partnership programme implemented by UNITEN involving prominent figures, Dato' Seri Ir. Dr. Zaini Ujang, Secretary General, Ministry of Energy, Green Technology and Water (KeTTHA) as the invited speaker for this event in the presence of Tan Sri Dr. Ir. Ahmad Tajuddin Ali (UNITEN Pro-Chancellor), TNB and UNITEN management, industry representatives, staff and students.



UNITEN International Advisory Council (UIAC) Meeting  
18 – 19 July 2017

The university has established UNITEN International Advisory Council (UIAC) with the objective of seeking views from experts and distinguished leaders in industry and education areas to enhance its strategic plan and future direction. The Council advises and guides UNITEN on its academic, research, business and globalisation directions. The third council meeting was held on 19 July 2017 attended by the council members from the UK, China, Denmark, Singapore, Hong Kong, and Korea, and UNITEN top management. Prior to this council meeting, the members met with UNITEN management and senate members on 18 July to discuss potential collaborations and held a discussion on the university's administration and management matters. After the council meeting, a public forum was held in the afternoon to allow the council members to share their views on matters related to energy and sustainability.





**Launching Ceremony of Entrepreneurship Ecosystem & *Sikal Elektrik Rakyat 1 Malaysia* (SER1M) 25 July 2017**

UNITEN Entrepreneurial Centre (UEC) held an Entrepreneurship Ecosystem Launching Ceremony to introduce this entrepreneurial centre and its functions to UNITEN. The launch of the *Sikal Elektrik Rakyat 1 Malaysia* (SER1M) was also carried out on the same day to introduce the electric bicycles received by the university from KeTTHA, thus supporting the ministry's proposal to foster awareness among the public for preserving the environment through the use of eco-friendly vehicles. Also taking place in this event was the handover of Malaysia Books of Records certificate to UNITEN for e-Bike Cycling achievement, with a total distance of 540.69km in 24 hours.



**Graduate Industry Excellence Award 2017 August 2017**

Graduate Industry Excellence Award 2017 (AIG2017) was held at Everly Hotel, Putrajaya. The main objective of organising this event was to celebrate and honour UNITEN graduates who excelled in their studies as well as active in co-curriculum involvement. It was a recognition from the industry to the students for their outstanding achievement throughout their studies at UNITEN. The ceremony was attended by Tan Sri Leo Moggie, Chairman of TNB/UNITEN as the guest of honour. A total of 300 attendees were present including award winners, industry sponsors, parents of graduates and other invited guests.





## The Jewels of Muslims World Award 2017 19 September 2017

UNITEN Vice-Chancellor, Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha was awarded The Jewels of Muslim World Award 2017 at the Putra World Trade Centre (PWTC), Kuala Lumpur, as the most outstanding figure among the movers and shakers of the Muslim world in recognition of his contribution towards social mobility of the underprivileged Muslims through science and technology education. Among other notable recipients were Sheikh Dr. Mufti Ismail Menk, Nobel Peace Laureate Professor Dr. Muhammad Yunus, and four others. The Vice-Chancellor also participated in The Round Table Talk - Jewels of The Muslim World, a one-day conference that was held on 18th September 2017 with the theme "Forging relationships, and accomplishing missions". The recipients of the awards and experts/ leaders of Muslim World shared their exclusive insights related to the theme.



## International Conference on Science, Technology and Nuclear Engineering (iNUSTEC) 2017 25 - 27 September 2017

The International Conference on Science, Technology and Nuclear Engineering 2017 (iNuSTEC) at UNITEN brought together scientists around the world to share their knowledge with the participants. Themed Crafting Nuclear Knowledge for Human Well-Being, the presentation was held at CSIT, UNITEN. The three-day programme was held in conjunction with the 2nd Malaysia Nuclear Women's Annual Conference and the 3rd Nuclear Youth Competition. As one of the branches of education, UNITEN was given the responsibility by TNB to develop human resource capabilities in nuclear power. Human capital requirements and demands for nuclear power plants are important and require careful planning in the long run to grow. It then makes the role of educational institutions like UNITEN very important to meet the needs of the Nuclear Energy Industry. Also present during the conference was Director-General Malaysia Nuclear Agency, Dr. Mohd Asshar Khalid.





## 7th International Conference on Information Technology and Multimedia (ICIMU) 2017 8 & 9 November 2017

The 7th International Conference on Information Technology and Multimedia (ICIMU) 2017 was organised by CSIT, UNITEN from 8 - 9 November 2017 at Hotel Bangi-Putrajaya. The conference provided a platform for researchers, academia, engineers, standardisation bodies, government officials and practitioners to dialogue and exchange ideas on recent research and development in various areas of computing. The theme for this edition of conference was “Powering Information Society through Data Analytics”. The theme was derived as data analytic will be the next stage of advancement in computing. This is pursuant to ICIMU 2014 conference, which focused on Internet of Things (IoT) that provides the infrastructure to collect a multitude of data from people and the environment. However, it is only done by harnessing data analytics that will bring value to data collected. The aim of the conference was to discourse the current research advancement in data analytics, as well as in other related areas in computing.







## Academic Overview

In FY 2017/2018, UNITEN has further excelled in academics. Being granted Tier-5 in SETARA 2017, UNITEN has further diversified its academic programmes and was conferred the Self-Accreditation status in February 2017. A total of 56 academic programmes were offered to students and a total of 2959 graduates were produced by UNITEN in 2017, the highest number in the history of UNITEN since its establishment in 1997. Besides that, UNITEN has also started adopting Blended Learning (BL) to cater students' needs which is depicted as a change in the way lecturers and students value and experience teaching and learning processes. Here, the students are equipped with relevant knowledge in the field of engineering, IT, computer science, business, accounting, and finance that will further facilitate them in their career. Not only that, the students are also challenged to pursue their dreams to the higher level. The curriculum in UNITEN is tailored specifically to meet today's market which are closely monitored to ensure that the courses are updated and meet the standard set by MOHE.

### Academic Programmes at UNITEN





## List of Academic Programmes

### PhD

# 4

- Doctor of Philosophy (Business Management)
- Doctor of Philosophy (Engineering)
- Doctor of Philosophy in Industrial Science
- Doctor of Philosophy in Information and Communication Technology

### Master

# 18

- Master of Civil Engineering (Structure A)
- Master of Electrical Engineering (Structure A)
- Master of Industrial Science (Structure A)
- Master in Information Technology (Structure A)
- Master of Mechanical Engineering (Structure A)
- Master of Science in Accounting (Structure A)
- Master of Science in Management (Structure A)
- Master of Science in Finance (Structure A)
- Master of Electrical Engineering (Structure B)
- Master of Mechanical Engineering (Structure B)
- Master of Information Technology (Structure B)
- Master of Software Engineering (Structure B)
- Master in Engineering Management (Structure C)
- Master of Business Administration (Structure C)
- Master of Communication Systems Engineering (Structure C)
- Master of Electronics and Systems Engineering (Structure C)
- Master of Structural Engineering (Structure C)
- Master of Business Administration (Structure C)

### Diploma

# 7

- Diploma in Mechanical Engineering
- Diploma in Electrical Engineering
- Diploma in Computer Science
- Diploma in Corporate Management with Tahfiz
- Diploma in Business Studies
- Diploma of Accountancy
- Diploma in Finance

### Bachelor

# 18

- Bachelor of Civil Engineering (Hons.)
- Bachelor of Electrical & Electronics Engineering (Hons.)
- Bachelor of Electrical Power Engineering (Hons.)
- Bachelor of Mechanical Engineering (Hons.)
- Bachelor of Computer and Communication Engineering (Hons.)
- Bachelor of Computer Science (Software Engineering) (Hons.)
- Bachelor of Computer Science (Systems & Networking) (Hons.)
- Bachelor of Computer Science (Cyber Security) (Hons.)
- Bachelor of Information Technology (Graphics & Multimedia) (Hons.)
- Bachelor of Information Technology (Information System) (Hons.)
- Bachelor of Information Technology (Visual Media) (Hons.)
- Bachelor of Business Administration (Hons.) in Entrepreneur Development
- Bachelor of Business Administration (Hons.) in Entrepreneurship & Venture Management
- Bachelor of Business Administration (Hons.) in Human Resource Management
- Bachelor of Business Administration (Hons.) in Marketing
- Bachelor of Accounting (Hons.)
- Bachelor of Finance (Hons.)
- Bachelor of International Business (Hons.)

### Foundation

# 9

- Foundation in Civil Engineering
- Foundation in Electrical and Electronic Engineering
- Foundation in Electrical Power Engineering
- Foundation in Mechanical Engineering
- Foundation in Computer Science
- Foundation in Information Technology
- Foundation in Business Administration
- Foundation in Accounting
- Foundation in Finance



Graduation in 2017

**2959****1 College of Graduate Studies 178**

- 9** Doctor of Philosophy in Business Management
- 20** Doctor of Philosophy in Engineering
- 10** Doctor of Philosophy in Information Technology
- 2** Master of Industrial Science
- 24** Master of Electrical Engineering
- 12** Master in Engineering Management
- 15** Master of Mechanical Engineering
- 8** Master of Civil Engineering
- 2** Master of Communication Systems Engineering
- 2** Master of Science in Accounting
- 58** Master of Business Administration
- 1** Master of Software Engineering
- 12** Master of Information Technology
- 3** Master of Electronics and Systems Engineering

**2 College of Engineering 865**

- 216** Bachelor of Civil Engineering (Hons.)
- 359** Bachelor of Mechanical Engineering (Hons.)
- 137** Bachelor of Electrical and Electronics Engineering (Hons.)
- 144** Bachelor of Electrical Power Engineering (Hons.)
- 9** Bachelor of Computer and Communication Engineering (Hons.)

**3 College of Business Management and Accounting 1027**

- 356** Bachelor of Business Administration (Hons.) in Human Resource Management
- 392** Bachelor of Accounting (Hons.)
- 174** Bachelor of Finance (Hons.)
- 43** Bachelor of International Business (Hons.)
- 13** Bachelor of Business Administration (Hons.) in Entrepreneur Development
- 49** Bachelor of Business Administration (Hons.) in Marketing

**4 College of Computer Science and Information Technology 383**

- 55** Bachelor of Information Technology (Graphics and Multimedia) (Hons.)
- 85** Bachelor of Computer Science (Systems and Networking) (Hons.)
- 135** Bachelor of Information Technology (Information System) (Hons.)
- 108** Bachelor of Computer Science (Software Engineering) (Hons.)

**5 College of Foundation and Diploma Studies 506**

- 85** Diploma in Computer Science
- 12** Diploma in Finance
- 73** Diploma of Accountancy
- 77** Diploma in Business Studies
- 141** Diploma in Mechanical Engineering
- 118** Diploma in Electrical Engineering



## Programme Accreditation



College of Engineering (COE) attained a commendable achievement in obtaining a five-year accreditation for all bachelor in engineering programmes from the Engineering Accreditation Council (EAC) in January 2017. The programmes involved are Bachelor of Electrical Power Engineering (Hons.), Bachelor of Electrical and Electronics Engineering (Hons.), Bachelor of Mechanical Engineering (Hons.), and Bachelor of Civil Engineering (Hons.); each receives accreditation until 2021 while Bachelor of Computer and Communication Engineering (Hons.) receives accreditation until 2020. This apparently shows that UNITEN is committed to enhancing the quality of students' learning experience, thus ensuring that graduates are ready enough to meet the demands and needs of the industry. Meanwhile, two new programmes; Bachelor of Economics (Energy) (Hons.) and Bachelor of Business Economics (Hons.) under College of Energy Business and Economics (CEE) have been granted Provisional Accreditation.



## Annual Programme Review

The Annual Programme Review (APR) is conducted to ensure continuous quality improvement (CQI) of all programmes through the review of the existing implementation of all programmes and future planning for quality enhancement. This is done by getting feedback from the staff as one of the stakeholders for the Programme. The APR also aims to highlight any updates related to the implementation of Outcome Based Education (OBE) for the upcoming academic year, together with other academic matters.



### College of Computer Science & Information Technology (CSIT)



### College of Engineering (COE)



### College of Business Management & Accounting (COBA)



### College of Foundation & Diploma Studies (CFDS)



## External Examiner Visit

### College of Engineering (COE)



▲ Prof. Ir. Dr. R. Badlishah Ahmad  
Bachelor of Computer and Communication Engineering (Hons.)

### College of Computer Science & Information Technology (CSIT)



▲ Prof. Dr. Mikio Aoyama  
Bachelor of Computer Science (Software Engineering) (Hons.)



▲ Prof. Krzysztof Pawlikowski  
Bachelor of Computer Science (Systems & Networking) (Hons.)

### College of Business Management & Accounting (COBA)



▲ Prof. Felix Tinoziva Mavondo  
Bachelor of Business Administration (Hons.) in Marketing



▲ Prof. Kosmas X Smyrniotis  
Bachelor of International Business (Hons.)



## External Examiner Visit

### College of Foundation & Diploma Studies (CFDS)



▲ Prof. Madya Dr. Wan Mohd Nasir Wan Kadir  
Diploma in Computer Science

### College of Graduate Studies (COGS)



▲ Prof. Dr. Mohammad Nazri Mohd. Ja'afar  
Master of Mechanical Engineering





## Industrial Advisory Panel & Adjunct Professors

In order to ensure that programmes are kept abreast with industrial development in related fields, Industrial Advisory Panels and adjunct professors are appointed from the industry, agencies and universities. Their recommendations concerning matters relevant to the industry are taken into consideration in developing quality and significant academic programmes. Besides that, they provide external industry perspectives on related issues and advise on the relevance of the curriculum to the needs of the industry. Strategic advice given helps to improve the performance of the students and programmes.

### COE 33

- Datuk Ir. Mohd Adnan Mohd Nor
- Datuk Seri Ir. Azman Mohd
- Dato' Haji Nor Azman Mufti
- Dato' Ho Peng Choong
- Dato' Muhammad Razif Abdul Rahman
- Prof. Dr. Taksiah A. Majid
- Prof. Ir. Dr. Zuhairi Abd Hamid
- Ir. Dr. Hj. Kamsani Abdul Majid
- Ir. Dr. Mohd Fairuz Ab Rahman
- Ir. Dr. Zahrul Faizi Hussien
- Ir. Dr. Zainul Asri Mamat
- Dr. Eu Poh Leng
- Ir. Narendren Rengasamy
- Ir. Abdul Rahim Ibrahim
- Ir. David Ng Shiu Yuen
- Ir. Hambali Hussein
- Ir. Hj Azhar Mohd Ali
- Ir. Mohamed Ali Yusoff
- Ir. Mohamed Zaimir Mohamed Suffian
- Ir. Prof. Dr. Mohd Sabri Abdullah
- Ir. Razali Budin
- Ir. Wan Nor Azman Wan Salleh
- Mr. Anuar Yusoff
- Mr. Edward Yee Chee Kheong
- Mr. Elias Jailani
- Mr. Giovanni Minetti
- Mr. Lim Keng Hock
- Mr. Mohamad Shariff Harun
- Mr. Mohd Abdul Fatah Endut
- Mr. Reza Mirkhani
- Mr. Rosman Hamzah
- Mr. Syed Putera Syed Mokhtar
- Mr. Wan Roz Wan Hussein

### CSIT 29

- Datuk Hj. Ir. Khalilur Rahman Ebrahim
- Datuk Prof. Dr. Ahmad Rafi Mohamed Eshaq
- Datuk Syed Hussian Al-Junid
- Prof. Dr. Naomie Salim
- Prof. Dr. Rose Alinda Alias
- Prof. Dr. Shahruhniza Musa
- Prof. Dr. Shamsul Sahibuddin
- Prof. Dr. Suhaidi Hassan
- Dr. Dzaharudin Mansor
- Dr. Mazlan Abbas
- Dr. Norhazilawati Awang
- Dr. Solahuddin Shamsuddin
- Hj. Burhanuddin Md Radzi
- Hj. Fazil Ibrahim
- Hj. Muhammad Basil Badrul Jamil
- Mr. Abd Rahman Johari
- Mr. Assakhof Ab Satar
- Mr. Hasnul Hadi Samsudin
- Mr. Izwan Hasli M Ibrahim
- Mr. Khairul Amri Yunus
- Mr. Lee Chon Ming
- Mr. Lim Meng Kooi
- Mr. Mohamad Fazli Mohamad Sarujee
- Mr. Mohammad Ariff Zainol
- Mr. Mohd Asrul Abdul Aziz
- Mr. Muhammad Azhan Dato' Mohamad Salleh
- Mr. Zulkarnain Abd Wahab
- Ms. Rozita Radzuan
- Ms. Siti Norliza Mohd Sahar

- Dato' Muhammad Razif Abdul Rahman
- Dato' Roslina Zainal
- Dato' Sri Sharifah Sofiani Syed Hussain
- Dato' Zahrah Abd Wahab Fenner Prof. Madya
- Dato' Dr. Hj. Hilmi Ab. Rahman
- Prof. Dr. Noor Azlinna Azizan
- Prof. Dr. Rosmimah Mohd Roslin
- Prof. Dr. Takiyah Mohd Iskandar
- Prof. T. Ramayah
- YM Dr. Raja Shamri Raja Hussin
- Dr. Nurmazilah Dato' Mahzan
- Dr. Rusli Othman
- Hj. Ismail Abdul Rahman
- Mr. Ahmad Fer-Rouse Ahmad Khairudin
- Mr. Aziz Anuar
- Mr. Azrail Khaidzir
- Mr. Che Akhma Ismail
- Mr. Eugene Tan
- Mr. Fauzul Na'im Ishak
- Mr. Mohd Fairuz A. Ghani
- Mr. Mohd Noor Mohd Ismail
- Mr. Nazmi Othman
- Mr. Nik Mohd Hasyudeen Yusoff
- Mr. Romli Ishak
- Mr. Roslan Abdullah
- Mr. S. Saravana Kumar
- Mr. Salihin Abang
- Mr. Zacharias Dhanaraj
- Ms. Chung Kar Yin
- Ms. Marlina Rusli
- Ms. Masnani Hj Bashiron
- Ms. Nora Abd Manaf

### COGS 6

- Datuk Wira Roslan Ab Rahman
- Dato' Ir. Mohammed Noor Abu Hassan
- Dato' Roslina Zainal
- Prof. Dato Dr. Sudin Haron
- Mr. Lionel Yap
- Mr. Mohammad Zahir Ismail

### COBA 40

- Datuk Fazlur Rahman Zainudin
- Datuk Dr. Hafsa Hashim
- Datuk Hj. Shamsul Ahmad
- Datuk Ir. Lim Tong Kang
- Datuk Johan Idris
- Datuk Wira Roslan Ab Rahman
- Dato' Haji Che Pee Samsudin
- Dato' Ir. Mohd Aminuddin Mohd Amin

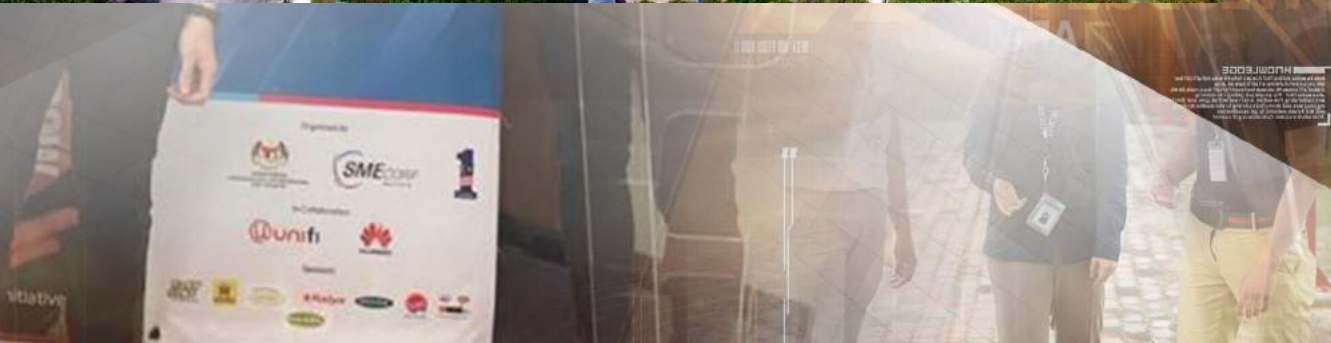


## Special Programme : Electronics to Electrical Engineering Conversion Programme

UNITEN offers a programme for graduate engineers registered with Board of Engineers Malaysia (BEM) under electronic category who wish to transfer to electrical engineering discipline. The prospective candidates are allowed to enroll in relevant courses to bridge the gap in order to acquire sufficient knowledge in the Electrical Engineering field. This 15-week conversion programme is similar to the courses offered in UNITEN's Bachelor of Electrical Power Engineering (Hons.). In 2017, 29 students managed to complete the conversion programme.

The courses aim at providing strong electrical engineering fundamentals, especially electrical power topics to the participants. This programme offers courses as follows:

- Electrical Power System II (PSII)
- Electrical Machines & Drives (EMD)
- Electromagnetic Fields & Waves (EMF)
- Circuit Analysis II (CCTII)





## Teaching & Learning Aspect

UNITEN is committed in providing enriching learning experience at the university that meets contemporary market needs. In support of this, the Teaching and Learning Centre provides ongoing training to the academics with core and enrichment courses. New and beginner lecturers are orientated into the university teaching and learning environment through an intensive certificate programme taken within the first two years of their career at UNITEN.

As for the mainstream academic population, their teaching skills and pedagogical knowledge are continuously enhanced through short courses and workshops. The courses range from skills-based courses to academic personal development, to innovations in teaching for lecturers at all levels and disciplines. With the recent introduction of Blended Learning (BL) initiative in BOLD 2025, the focus on professional training for the academics provided by TLC in FY 2017 have been as follows:

1. Blended Learning & Flipped Classroom Level 1
2. Blended Learning & Flipped Classroom Level 2
3. iSpring Workshop
4. Stress Management For Academics
5. Neuro-Linguistic programming (NLP) Level 1
6. Neuro-Linguistic programming (NLP) Level 2
7. Introduction to Assessment & Evaluation
8. Digital Learning Experience for UNITEN academics
9. Panopto Training Session For UNITEN academics
10. Crafting Indoor Games For Class Use

The training workshops conducted this year mainly emphasised on the use of the most current technology in the market for classroom teaching and learning. In addition, they also promote student-centred teaching and learning. Following these training also, several suitable e-learning tools and license applications have been acquired to further support the Blended Learning initiative. Last year, three Problem-Based Learning (PBL) classrooms were completed in both campuses. This year, six more PBL classrooms have been completed, supporting the “Smart Campus” move for ease of learning. These classrooms provide a conducive high-tech environment for group work and activity-based teaching that promote learner-centred teaching and active learning, thus appropriately complementing teaching-learning approaches of BL.

Also under construction is the BL Recording Studio that provides state-of-the-art video capture to record lessons for various purposes such as for live streaming, offline lesson archives or for teacher training purposes.

UNITEN is making a progressive move towards providing learning experience that meets the change in learning styles of the new millennials







Assessment and Evaluation Workshop



Stress Management Workshop



Blended Learning Main Recording Studio



Blended Learning Self-Access Recording Studio





## Pensijilan Tahfiz Al-Quran JAKIM-UNITEN / Huffaz Professional UNITEN

Huffaz Professional UNITEN is a programme conducted by TAZU, UNITEN in collaboration with Darul Quran, Jabatan Kemajuan Islam Malaysia (JAKIM). This is a programme designed specifically to produce professional and huffaz graduates. It is a pure effort towards building a sense of worldly and ukhrawi knowledge. One of the programmes offered is Pensijilan Tahfiz Al-Quran.

From 1-7 August 2017, 11 students from UNITEN participated in the 8th University Scholars Leadership Symposium 2017 at Bangkok, Thailand. 8 out of 11 participants were the Tahfiz students. During the symposium, they learned the meaning of giving back to the community and how to respond to the needs of the marginalised community with works of kindness and unconditional services.

During the 26th Convocation Ceremony of Darul Quran, 36 students have graduated from this programme. 77% of the graduates obtained excellent results which are Imtiyaz and Jaiyyid Jiddan. The convocation ceremony was officiated by YB Senator Dato' Dr. Asyraf Wajdi Bin Dato' Dusuki, Deputy Minister in the Prime Minister's Department.

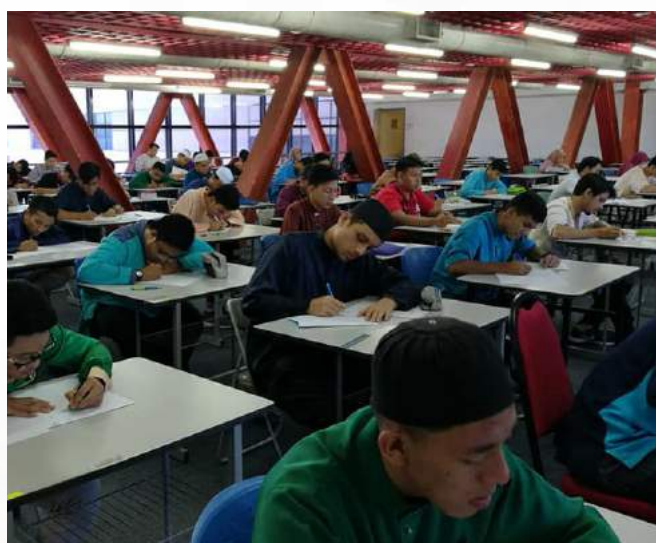




## Diploma in Corporate Management with Tahfiz (DCMT)

Another programmes offered under Huffaz Professional UNITEN is Diploma in Corporate Management with Tahfiz (DCMT) certified by MQA. This programme is managed by College of Foundation and Diploma Studies (CFDS). Some of these DCMT students also pursue Engineering course concurrently. 14 students from the first cohort have graduated in 2017.

UNITEN encourages these students to participate in other activities and programmes outside UNITEN to create added value for them. For example, some of them succeed in the Tilawah and Hafazan Al-Quran competition at national level. Besides that, some of the students were given a chance to lead Tarawih prayer at UNITEN mosque and nearby mosques with the guidance and support from the lecturers. This proves that our students have the talent and charisma that meet the needs of the community and the nation.





## TNB's Leadership Development Centre – MBA

This special MBA programme is designed not just to meet but to exceed the expectations of the outside world. It provides an exceptional opportunity for real insights into management and leadership. MBA-LDC programme was initiated in January 2015 and had their second cohort graduation in August 2017. 34 students were selected to enroll in the second cohort of the programme based on their qualification and experience. In this programme, students undertake 5 modules covering global business economics, mergers and acquisitions, business analytics, future thinking and strategy and managerial judgement.

In the second cohort, the selection process of the students was conducted meticulously. One of the students, Maheswaran s/o Ganthel @ Annamalai, was selected as one of the best students with CGPA of 4.00 during the Graduate Industry Excellence Award 2017. Some of the students have also been appointed to senior management post in some reputable organisations such as Mahathir Nor Bin Ismail at Real Estate Ventures (REV) as the Group General Manager.

UNITEN also invited guest speakers who are prominent industry key players from various companies to provide their insight and share their experience with the MBA-LDC students. The speakers were chosen based on their academic achievements and industrial experiences.

Business Strategy Games were also introduced for the second cohort such as the BSG Simulation that assessed the students in the application of knowledge and tools learned from the programme. This simulation game gives them international exposure and networking opportunities by studying alongside executives from large companies. The BSG was part of the MBA student's final assessment which is an added feature requested by LDC in order to meet TNB's need.





## Final Year Project Competition / Presentation

### College of Engineering (COE)

The College of Engineering Final Year Project (FYP) Competition is an award competition to highlight and celebrate the best undergraduate's final projects by COE students. The event for Semester 2, 2016/2017 was held on 24 February 2017 while the event for Semester 1, 2017/2018 was held on 11 October 2017. 78 projects were exhibited during these competitions. The students had the chance to grab awards in the categories of innovation, technicality and marketability. Students were selected to participate in the competition based on their FYP2 oral presentations. The judges for these competitions were from the industry, professional bodies and UNITEN internal judges.



### College of Computer Science and Information Technology (CSIT)

The College of Computer Science and Information Technology (CSIT) Final Year Projects (FYP) showcase and presentation in 2017 involved two departments namely System and Networking Department and Software Engineering Department. The focus of this event was to find the suitable projects that are marketable. The System and Networking Department conducted the event in Semester 1, 2017/2018 on 19 September 2017. Each project was evaluated by internal judges.

The event under the Software Engineering Department for Semester 2, 2016/2017 was held on 17 January 2017 while the event for Semester 1, 2017/2018 was held on 29 August 2017. About 54 and 70 students participated in both semesters respectively. Students' presentations were judged by the industrial panels and five posters were selected as the Best Idea Award winners.





## Final Year Project Competition / Presentation

### College of Business Management & Accounting (COBA)

Each final year student from COBA is exposed to research and has to undergo the process of how to deliver a good and quality research in their specialised area especially in Management and Human Resources. They have to complete and present their proposals, and prepare for the final year project presentation. Instead of a normal viva or a traditional method of presentation, COBA takes the initiative to organise a poster competition every semester which provides the students with a new and enriching experience. It also serves as a platform to exchange ideas between presenters and audience as well as the judges. In a poster presentation organised in 2017, three winners were selected to receive medals for their outstanding achievements. Meanwhile, the others received a token of appreciation for sharing their ideas and supporting the programme.



## Capstone Design Exhibition and Competition

The Mechanical Engineering Capstone Design Exhibition was held on 18 September 2017 and attended by 225 students taking the course of “Capstone Design”. In total, there were 48 projects showcased based on actual industry problems that were given to students at the beginning of the semester. The judging was done in two sessions. The first session was done internally by the Mechanical Engineering lecturers and 8 top groups were selected for the second round of the judging process.







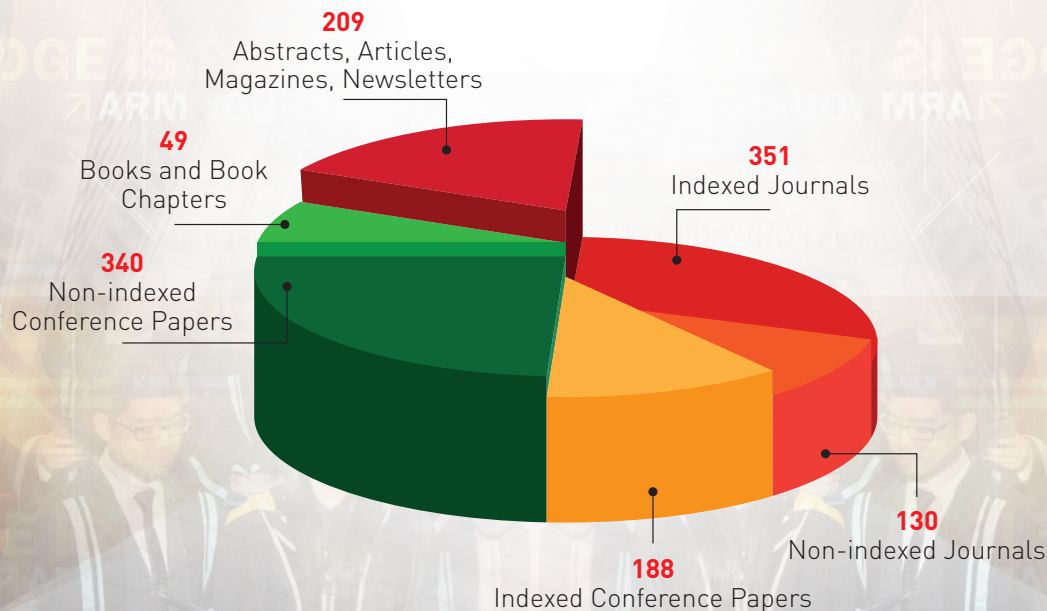
## Research, Development, Consultancy & Training

UNITEN is well-known for its research quality. Our staff and students are committed to research excellence and helping to improve science, technology and environmental wellbeing. Multidisciplinary collaboration, across colleges and with other organisations in Malaysia and at international level, is a core element of UNITEN's research success. The high quality of our research enriches our teaching with cutting-edge knowledge that inspires new generations of researchers. A total of 1231 publications were published in FY 2016/2017. Besides, the number of research projects approved was 449 and it translates to a total amount of RM 35.23 million of research grants. The total medals and awards won in the same fiscal year were 119.

### Publication

A total of 1231 articles was published in FY 2016/2017. The publications include indexed journals, non-indexed journals, indexed conference papers, non-indexed conference papers, books and book chapters, abstracts, articles, magazines and newsletters.

### Publication in FY 2016/2017



**Total : 1231**



## Awards and Competitions

Researchers from UNITEN participated in more than 6 exhibitions and competitions in FY 2016/2017. These competitions can be divided into (1) International (2) Industrial and (3) National. Seoul International Invention Fair (SIIF2016) and SIRIM Invention, Innovation and Technology Expo 2017 (Si2te17) are categorised as international and industrial competitions respectively. Meanwhile, Malaysia Technology Expo 2017 (MTE2017), International Invention and Innovation Exhibition (ITEX2017), *Pertandingan Rekacipta dan Inovasi Institusi Tinggi Pengajian Swasta (PERINTIS2016)* and IDRIS2017 are the national exhibitions and competitions. A total of 119 medals and awards were bagged by our researchers.

### International Exhibition and Competition



Seoul International Invention Fair  
2016 (SIIF2016)  
(1-4 December 2016)

### Industrial Exhibition and Competition



SIRIM Invention, Innovation and  
Technology Expo 2017 (Si2te17)  
(18 - 19 April 2017)



## National Exhibition and Competition



**Total : 119**

Malaysia Technology Expo 2017  
• (16-18 February 2017)



International Invention and Innovation  
Exhibition, ITEX'17  
• (12 May 2017)



PERINTIS 2016  
• (16 November 2016)

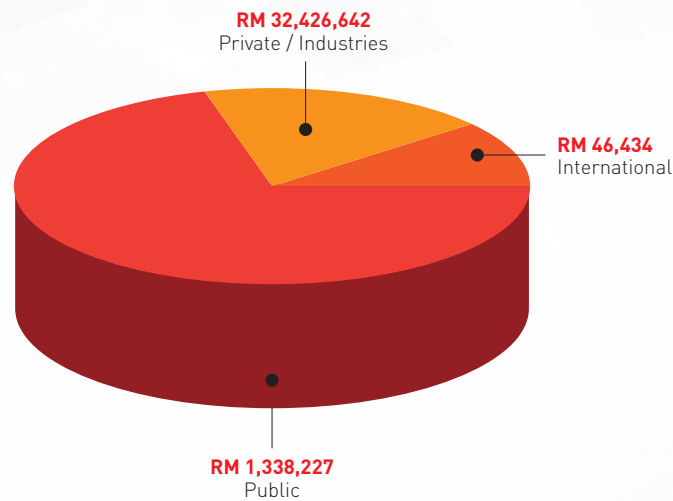




## Research Projects and Research Grants

UNITEN researchers have contributed significantly to the development of research at this university. In FY 2016/2017, from the total 445 active projects, UNITEN has successfully secured 2 international grants, 97 public grants and 346 private/industry grants. Meanwhile, RM 33.81 million of research grant was secured for the respective financial year. This research grant can further be divided into RM 1.34 million of public grant, RM 32.43 million of private/industry grant and RM 46,434 of international research grant.

## Research Grant Secured FY2016/2017

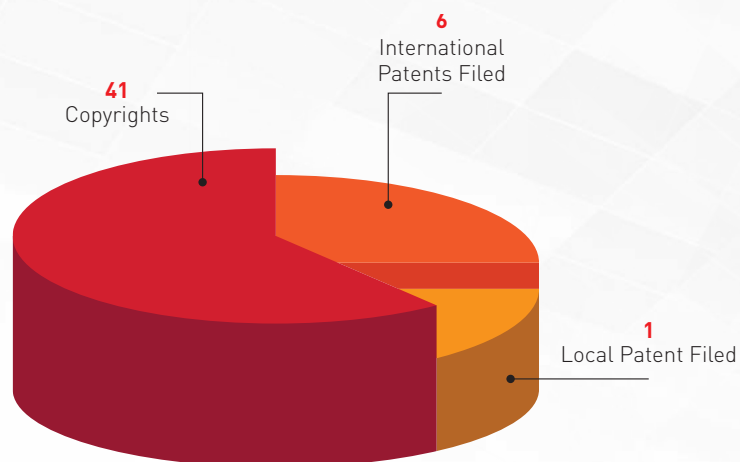


**Total : RM33,811,303**



## Intellectual Property

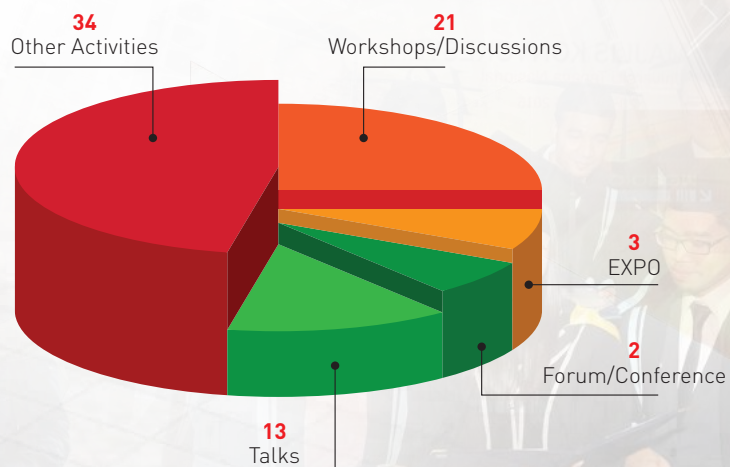
48 intellectual properties were filed in FY 2016/2017 which consist of 41 copyrights, 6 local patents and 1 international patent.



**Total : 48**

## Research Activities

Research activities such as seminars, workshops and forums were organised throughout FY 2016/2017 at UNITEN. The breakdown of the activities is shown in the chart below.



**Total : 73**



## Outstanding Researcher's Achievement

One of the best accomplishments by UNITEN researcher is the achievement of Prof. Dr. T.M. Indra Mahlia from COE who has been included in the top 1% highly cited researchers in the world (engineering category) by Clarivate Analytics (Web of Science) in 2017.



Prof. Dr. T.M Indra Mahlia

## Leadership in Invitation Fellowship Programme (LIF)

UNITEN researchers were sponsored by Royal Academy of Engineering, United Kingdom to participate in Leadership in Innovation Fellowship Programme from 4-15 December 2017 in London, United Kingdom. We are proud to see our researchers representing Malaysia in this reputable event. UNITEN was represented by the following researchers:



- **Assoc. Prof. Dr. Azree Idris**  
Project: Mosquito Buster
- **Assoc. Prof. Dr. Rohayu**  
Project: Vegetable Grout Self Sustain (VG2S)
- **Assoc. Prof. Dr. Zainon Mat Sharif**  
Project: Extraction Essential Oil from Melaleuca Cajuputi Powell
- **Dr. Jaspaljeet Singh**  
Project: i-Prevent Diabetes



## Important Research Activity

### *Pertandingan Rekacipta dan Inovasi Institusi Tinggi Pengajian Swasta (PERINTIS 2016)*

*Pertandingan Rekacipta dan Inovasi Institusi Tinggi Pengajian Swasta (PERINTIS 2016)* was successfully organised by UNITEN at Dewan Seri Sarjana, UNITEN on 16 November 2016. Carrying the theme “Better Brighter for Sustainable Future,” this event received 169 participations, among which, 28 were from schools nationwide. This year saw an increase in participations in comparison to PERINTIS 2014 in 2014. Only 2 years after it first started in IUKL in 2014, PERINTIS 2016 had already raised the benchmark of innovation and design competition amongst higher education institutions in Malaysia. The event was attended by more than 2000 spectators ranging from primary school to university students and researchers.

UNITEN Vice-Chancellor expressed his gratitude and claimed that innovation must be cultivated from the root and that UNITEN will always be supporting innovation and commercialisation, and will showcase its researchers’ products to the society. The event which was officiated by Tan Sri Leo Moggie, Chairman of TNB was supported by the Ministry of Science, Technology & Innovation (MOSTI), the Ministry of Education (MOE), the Ministry of Higher Education (MOHE) and TNB.

40 gold awards and 8 special awards were given in the ceremony graced by the presence of Datuk Seri Panglima Madius Tangau, MOSTI minister. Besides, 11 gold medals and 7 special awards were given to school category in the afternoon where Muhammad Amir Amir from Maahad Tahfiz Negeri Pahang won the PERINTIS Best of the Best Award (School) with an invention entitled “One Tap Secure”. Meanwhile, the Best of the Best Award (University and Industry) was given to Vinothini Kasinathan from Universiti Putra Malaysia (UPM) for her innovation called ‘MiKe: Remedy for Poisonous Slides’.







## Student's Achievements

UNITEN student development revolves around the philosophy and objectives of Malaysian education system as gazetted in the Malaysia Education Blueprint 2015-2025 (Higher Education). The Ministry of Higher Education (MOHE) is determined to produce Holistic, Entrepreneurial and Balanced Graduates who are also equipped with skills to withstand the challenges and demand of their respective professions.

Building upon the 10 shifts of the Malaysia Education Blueprint 2015-2025 (Higher Education) several key elements that are simple enough for the students to associate and relate to are translated from a given number of skillsets and values. The elements of skillsets are leadership, communication, problem-solving, interpersonal, analytical and adequate ICT skills. Meanwhile, the elements of values consist of spiritual, civilisation, moral and ethics, culture and universal values. These include values and characters that are easily understood and remembered based on the acronym IHSAN, which calls upon them to uphold and propagate, when engaged in any activities. The university attempts to integrate the spirit of compassion and benevolence to create an identity and build an exemplary character among them. The term IHSAN refers to:

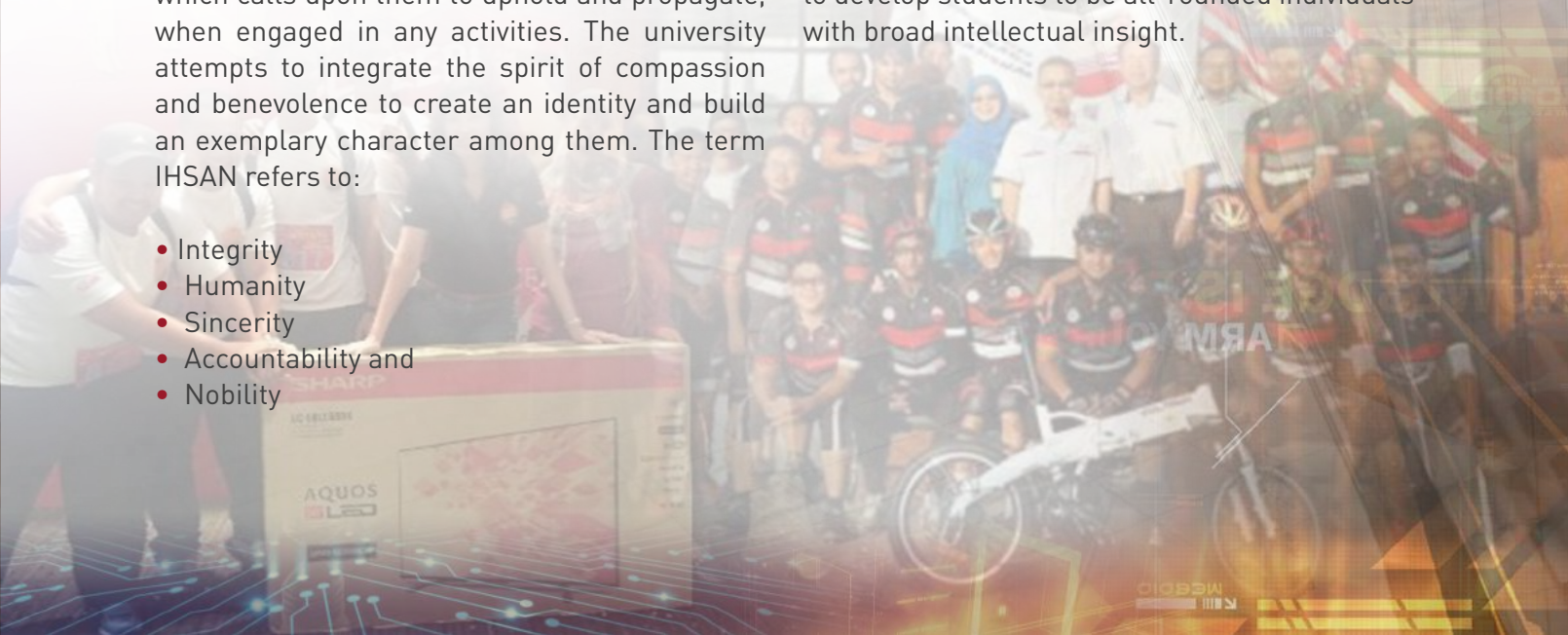
- Integrity
- Humanity
- Sincerity
- Accountability and
- Nobility

The idea in this philosophy is to encapsulate the values and skill-sets through the various levels of participation and involvement in activities and programmes at the university, employing the elements of IHSAN as a sign-post and beacon to ensure proper and guided manifestation of the desired values.

Five identified major grouping activities were formed in order to run a structured and well organised engagement programmes for student development at the university. The five major grouping activities are divided into the following core elements:

- Spiritual Values and Civilisational
- Leadership and Intellectual
- Sports and Recreational
- Arts and Cultural
- Communication and Entrepreneurship

We are proud of our students and their achievements. It has always been our intention to develop students to be all-rounded individuals with broad intellectual insight.





## 1 Spiritual Values and Civilisation

### ***Bakti Siswa: Mahasiswa Dihati Rakyat***

This programme was held from 13 - 16 April 2017 at Kampung Lahar Kejar, Kepala Batas. Bakti Siswa is one of community service programmes aiming to instill the spirit of volunteerism among UNITEN students, and aware of their roles and responsibilities towards the community parallel with responsibilities and social skills. There were 110 students participated in this programme which was sponsored and supported by TNB and TAZU. UNITEN Chancellor, Tuan Yang Terutama Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman Haji Abbas was also present to support the students.



### **Faith in Humanity**

Faith in Humanity is a community service activity organised by UNITEN Diploma Club (UDC) aiming to help the homeless specifically to maintain their hygiene. During the month of Ramadhan, 9 - 10 June 2017, a total of 100 volunteers (UNITEN students) and 6 officers participated in the activity around Jln. Bukit Nenas, and Jln. Tunku Abdul Rahman, Kuala Lumpur.

The project managed to get sponsorships from Perbadanan Kemajuan Ekonomi Islam Negeri Perak for the 'Hygiene Kit' and food for the homeless people. This activity managed to achieve the main objectives besides nurturing self-development in terms of leadership skill, organisational skill, social skill, and teamwork among the volunteers. It is hoped that this activity can be organised as yearly activity by collaborating with NGOs.





## UNITEN Humanitarian Mission

28 UNITEN students and staff participated in UNITEN Humanitarian Mission to ease the burden of the flood victims in the northern region of Malaysia. The humanitarian mission that took place from 25 - 26 November 2017 was assisted by several NGOs and agencies. 400 bottles of 1.5L mineral water, 100 hygiene kits, 100 cleaning kits, 60 pillows, 100 blankets, medications, health checks, home-cleaning and home-improvement repairs and cash were delivered to more than 200 families in Bertam, Penang and Kubang Pasu, Kedah.



## Coral Propagation & Community Engagement Programme 2017

Coral Propagation 2.0 was organised by UNITEN SEALS Club in collaboration with NGO's OCEAN QUEST from 11 - 13 August 2017. This programme was held at Pulau Kapas, Terengganu. A total of 40 volunteers (35 students including advisors, a few members of UDC and 5 lecturers) took part in this programme. This Coral Propagation programme aimed to plant corals in the sea to preserve them for the future generation. The funds collected from few previous events such as, THE MAZE RUNNER, 2nd Hand Book Sales, Charity Futsal and Badminton Tournaments were used in this programme.

From 11 - 12 August, the participants initially planned to plant 422 corals at Pulau Kapas. The number 422 represented the number of participants in THE MAZE RUNNER event and goes according to the slogan of the event, "A Maze Conquered, A Coral Planted". The participants planted not only 422 corals but almost 500 corals within 3.5 hours, with their excellent teamwork and pure hard work. On 13 August, the participants did beach cleaning around the Pulau Kapas in the morning.





### CFDS CSR Programme: Hope For Future

UNITEN Foundation Club, CFDS of both Putrajaya and KSHAS campuses collaborated to organise a corporate social responsibility programme that was held on 15 December 2017. 21 volunteers participated in the community service programme at Rumah Amal Asnaf Al Barakh, Wangsa Maju, Kuala Lumpur and accompanied by their club advisors.

The programme has inspired all UNITEN students to contribute and help ease the living of the orphans by empowering hope for the children to strive for their own bright future. This is because we believe that building the orphans' self-esteem will cultivate high impact to their academic achievements, positive behaviour and practices. This will gear towards developing highly motivated and successful community that deserves to be treated with justice, love and respect regardless of status.



## 2 Leadership & Intellectual

### Best IEEE Power and Energy (PES) UNITEN Student Branch Chapter

IEEE Power and Energy (PES) UNITEN Student Branch Chapter from COE has won the first place for 'Send and Win' competition organised by IEEE PES Malaysia. The award was given to the most active PES Student Branch Chapter in Malaysia with the most activities conducted. The event was in conjunction with IEEE Annual General Meeting ceremony.





## Best IMechE Student Chapter Award

The Malaysia Branch Young Members Section of The Institution of Mechanical Engineers (IMechE) organised the Best Student Chapter competition which was open to Student Chapters who voluntarily nominate themselves to be included. Currently, the Institution has 19 Student Chapters in Malaysia. This annual event, comes with a prize of a certificate awarded to the Student Chapter and a trophy engraved with the chapter name of the annual winners.

IMechE UNITEN Student Chapter from COE won the Best Student Chapter award for the year 2017 which was announced by IMechE Malaysia Branch during the annual dinner on 4 December 2017 held in Kuala Lumpur, where a total of 4 student chapters were shortlisted out of 19 throughout Malaysia, including UNITEN. This award marks another historic milestone where IMechE UNITEN has been receiving awards for two consecutive years. In addition, this award is also regarded as a great achievement by the students and committee members of IMechE UNITEN Student Chapter in 2017 with the guidance and support from the club advisor, Mr. Chua Yaw Long.



## WhaddaHack @ SMIDEX 2017

WhaddaHack @SMIDEX 2017 is an SME Corp Malaysia inaugural hackathon that aimed to spearhead innovation among SMEs in Malaysia. This programme was conducted from 15 – 16 November 2017 at MITEC. UNITEN students successfully secured the grand prize worth RM7,000.

UNITEN was represented by Chew Jing Yao, Lim Kien Seng, and Nik Muhamad Mirza Hilman Baderolsham from CSIT.





## KPMG Cyber Security Challenge 2017

KPMG Cyber Security Challenge 2017 was organised on 21 November 2017 at Bangsar South City. This programme is open to undergraduates from public and private institutions in Malaysia.

In this programme, participants were put to the test on their cyber security skills and knowledge in reverse engineering, steganography, cryptography, programming, network analysis, infrastructure hacking, web application security, and digital forensics.



## Cyber Heroes Competition 2017

CyberSecurity Malaysia (CSM) organised Cyber Heroes Competition 2017 in collaboration with Malaysian Communications and Multimedia Commission (MCMC), Standard Chartered Bank (SCB), and Malaysia Digital Economy Corporation (MDEC) and hosted by Universiti Kebangsaan Malaysia (UKM). This competition was held from 4 – 5 December 2017 involving 20 teams from public and private universities.

UNITEN team successfully won the first place in the competition and a total of RM5,000 was awarded to them. This competition managed to instill teamwork and leadership skills apart from proving that UNITEN has the best students in academic and co-curricular activities.





## Asian Youth International Model United Nations 2017

From 3 - 6 November 2017, one of UNITEN students, Nur Farahiyah Zulkifli participated in Asian Youth International Model United Nations 2017. Model United Nations is a simulation of the United Nations.

The main purpose of Model United Nations is to bring young people from all over the world to cooperate in social movement, business, technology and culture to get to know each other and bring changes for a better world. Through this international programme, students get to build their leadership, global thinking skills and bring them together to widen their networks, appreciate and support one another.

The Asia Youth International Model United Nations 2017 was held at Sunway Putra Hotel for the period of 4 days. This event assembled participants from 16 countries with the participation of 600 people across the ASEAN region.



## 3 Sports & Recreational

### SEA Games – Kuala Lumpur 2017

Four UNITEN athletes participated in the Sea Games, Kuala Lumpur 2017 from 19 - 30 August 2017 in Kuala Lumpur. Nur Zafirah Aziz secured a gold medal for Women Field Hockey while Nur Aisyah Yaacob, Priyangga D/O S.Jayarajah and Noorain Mohd Arshad secured bronze medals for Women Indoor Hockey.





## E - Bicycle 500 km 24 Hours - Malaysia Book of Record

Around 20 UNITEN students successfully set a record in The Malaysia Book of Records (MBOR) in the 'Longest Distance 24 Hours Electric Pedal Assisted Bicycle (EPAB) Ride' programme by cycling 540.69 km within 24 hours.

This programme was organised by UNITEN Entrepreneurship Centre (UEC) and Sports and Cultural Unit of UNITEN Student Affairs Centre in collaboration with VOLTRON Sdn. Bhd. on 23 July which commenced at 8.30 am. The participants cycled from Dewan Seri Sarjana, UNITEN to Dataran Banting, Putrajaya, and back to UNITEN. They successfully finished the 500km cycling programme in 20 hours 58 minutes.



## IPT Football League Division 2 2017

This tournament was organised by MOHE in collaboration with Universiti Teknologi Mara (UiTM) which involved 11 teams from 6 – 12 November 2017 at UiTM, Bandar Seri Iskandar, Perak. A total of 25 UNITEN students participated in this tournament and successfully secured the third place.



## Sukan MASISWA for the East Zone

UNITEN sent 67 contingents (58 athletes and 7 officers) to participate in SUMZOT 2017 from 5 January – 8 November 2017 at *Kolej Universiti Islam Pahang*, Sultan Ahmad Shah, Kuantan Pahang. UNITEN contested in Men Soccer, Women Netball, Badminton, Ping Pong, Men Chess, and Women Chess. Our athletes managed to grab 7 gold medals, 2 silver medals and 1 bronze medal out of five games.





### Petanque Marathon Open Tournament, Pahang 2017

UNITEN Petanque Club participated in the Petanque Marathon Open Tournament, Pahang 2017 at Kubang Gajah Petanque Court, Temerloh, Pahang. This tournament was held from 27 – 29 October 2017. Our Athletes won a gold medal and represented by Mohammad Intidzam Mohammad Noor and Azfar Hariz Mohd Aziz. Meanwhile, Nurhidayah Mohamed Othman and Nur Fathi Insyirah Ishak secured the fourth place in this event.



### Petanque Open Tournament, Melaka 2017

UNITEN Petanque Club participated in the Petanque Open Tournament, Melaka 2017 at Hang Jebat Petanque Arena, Japerum Complex, Pantai Kundur, Melaka. This tournament was held from 22 - 24 December 2017. Our Athletes managed to secure a silver medal. This event was represented by Mohammad Intidzam Mohammad Noor and Azfar Hariz Mohd Aziz.



## 4

### Arts & Cultural

#### Festival of Colours of the World

A total of 15 UNITEN students participated in this competition that was organised on 12 August 2017. They performed a medley dance consists of Asli and Inang dances supervised by a dance instructor from ASWARA. UNITEN secured the third place among 20 teams from Malaysia private institutions.





## 5 Communication & Entrepreneurship

### CIMB Talent Trail 2017

The CIMB Talent Trail 2017 is an outdoor challenge conducted fully in English by emphasising on employability skills such as clear communication skills, teamwork, self-confidence, readiness to face challenges, and also physical fitness. This programme was open to all undergraduates studying in both private and public universities in Malaysia. All activities organised were employability-related.

This programme was held at Menara Bumiputra-Commerce, Kuala Lumpur on 25 February 2017. The Viral team won 23rd place out of 60 participating teams with a cash prize of RM300. The team was represented by Muhammad Akqil Sharum, Lehwinns Raj S/O Gunaselan Thangaraj, Muhammad Shahfadzil Mohamad Yassin and Khairul Izzat Azmy. UNITEN also won Special Award for the highest participation and took home TV Sharp 50" Full HD Android worth RM3,600 with certificate.







## UNITEN Alumni Highlight



### Hasan Omar Ali Alhaddad

Hasan Omar Ali Alhaddad graduated with a degree in Bachelor of Civil Engineering (Hons.) from UNITEN in 2015 and held a position as the Head of Unit of Corrective Maintenance in Prasarana Integrated Management & Engineering Services Sdn. Bhd., Saudi Arabia. He was awarded with ITEX Gold Medal at the ITEX 17 International Invention and Innovation Exhibition



### Vimal Kumar

Vimal Kumar graduated with a degree in Bachelor of Mechanical Engineering (Hons.) from UNITEN in 2008 and held a position as the Co-Founder & CEO at Yellow Porter Kuala Lumpur.



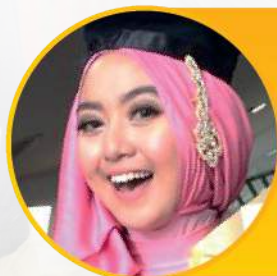
### Siti Zulaikha Mohamad Zobir

Siti Zulaikha Mohamad Zobir Graduated With A Degree In Bachelor Of Business Administration (Hons.) In Marketing From Uniten In 2006 And Held A Position As The Head Principal Assistant Director At Economic Planning Unit (Epu).



### Saiyed Mohd Akhbarino Saiyed Mohd Akhir

Saiyed Mohd Akhbarino Saiyed Mohd Akhir graduated with a degree in Bachelor of Information Technology (Hons.) from UNITEN in 2006 and held a position as the Head Assistant Director at National Cyber Security Agency (NACSA)



### Dewi Fajar Haryati

Dewi Fajar Haryati graduated with a degree in Bachelor of Information Technology (Information System)(Hons.) from UNITEN in 2016. Her big achievement was receiving the Vice-Chancellor Award for Best Student for Bachelor of Information Technology (Information System)(Hons.). She is currently working as the Software Developer at UZMA Berhad.





### Mohamed Hussien Abdul Aziz

Mohamed Hussien Abdul Aziz graduated with a degree in Bachelor of Civil Engineering (Hons.) from UNITEN in 2005 and he is also a successful entrepreneur of Sah Darussalam Sdn. Bhd. (Managing Director & Founder), Balaji Enterprise Sdn. Bhd. (Director); and Concorde Alliance Sdn. Bhd. (Property Consultant).



### Nik Suzila Nik Hassan

Nik Suzila Nik Hassan graduated with a degree in Bachelor of Accounting (Hons.) from UNITEN in 2002. She is an Executive Director of Cloth Lifestyle and a Founder of Kloth Malaysia.



### Mashitah Othman Omar

Mashitah Othman Omar graduated with a degree in Bachelor of Information Technology (Information System) (Hons.) from UNITEN in 2009 and held a position as the Head Incident Management Specialist at British Petroleum (BP).



### Tan Yun Keong

Tan Yun Keong graduated with a degree in Bachelor of Computer Science (Software Engineering) (Hons.) from UNITEN in 2015 and currently held a position as the Senior Associate of Risk and Assurance at Ernst & Young.





## Endowment

UNITEN endowment is a perpetual source of support for the University and its mission. UNITEN has raised more than RM20,000,000 for the financial year from September 2016 until December 2017 through its endowment fund initiatives such as Staff/Alumni Salary Deduction Schemes, fundraising activities and donations from corporate organisations and individuals. In general, there are two types of contributions of endowment fund recognised by UNITEN namely cash contributions (direct) and non-financial contributions (indirect).

In terms of cash contribution to the Endowment Fund, the largest source of contribution was from Tabung Amanah Zakat UNITEN (TAZU). The establishment of TAZU in UNITEN as the Assistant Amil of Lembaga Zakat Selangor (LZS) is to carry out the responsibility of collection and distribution of zakat. TAZU also manages and regulates all matters in a transparent manner with regard to collection, administration and distribution of Zakat.

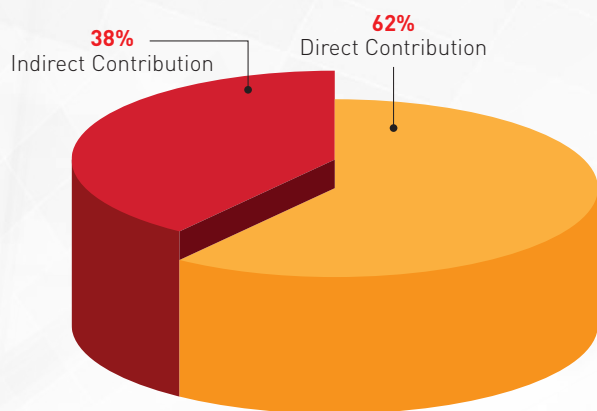
In terms of disbursement, TAZU is allowed to distribute zakat among students and staff in both campuses of Putrajaya and Muadzam Shah who were categorised as beneficiaries/asnaf. Zakat assistance is a firm commitment from TAZU to ensure that the deserving poor and needy Muslims get the necessary support to better manage their financial and social challenges. The total distribution from September 2016 to December 2017 was RM6,217,997.41.

Meanwhile, Yayasan Cancelor UNITEN (YCU) received RM976,389.90 from various donors. YCU was set up in Universiti Tenaga Nasional with the aim of developing, enlightening and empowering individuals through education. Therefore, YCU aims to achieve its fundamental purpose that is to acquire, administer and distribute funds to facilitate education opportunities for deserving Malaysians. All contributions/donations to YCU are tax deductible under Section 44 (6) of Income Tax Act 1967.

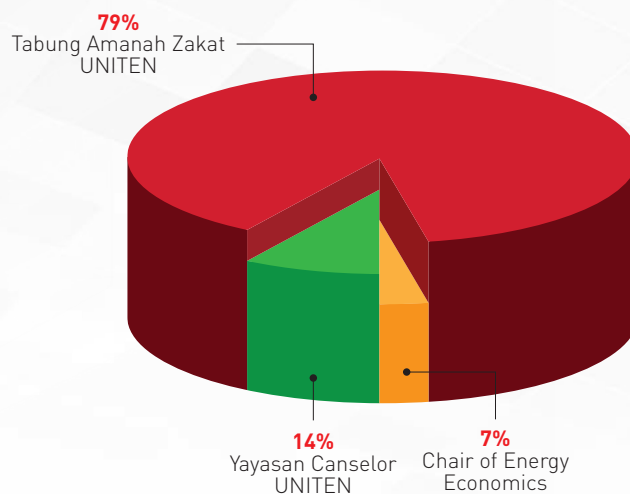
Additionally, UNITEN Alumni Endowment Fund (ALEF) was established by YCU as a platform for Alumni to support UNITEN mission to create opportunities for the next generation. It aims at realising UNITEN Transformation Strategic initiative to strengthen relationships with UNITEN Alumni members. All contributions to this fund are channelled to benefit the students and university. Donations from Alumni have an incredible impact as it could transform the life of a low-income student, provide new opportunities to clubs or societies, and help our researchers.



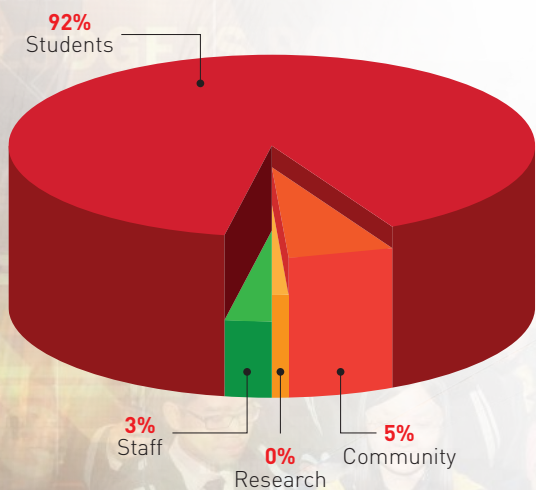
### Direct and Indirect Contribution



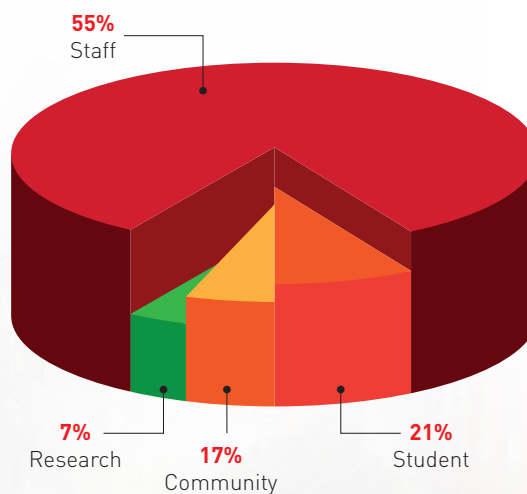
### Direct Contribution to Endowment Fund



### Disbursement of Direct Contribution by Categories



### Disbursement of Indirect Contribution by Categories





## Financial Assistance by TAZU

The application for financial assistance opens to students by semester in which the applicants have to attend an interview session before it is approved by disbursement committee. In total TAZU disbursed RM3,271,566.54 to 1,419 students and staff for tuition fees, allowances, industrial training, medical and emergency cases.



## Syawal Gifts

This annual programme aims to help students who are categorised as Asnaf Fakir and Miskin by giving pocket money to cover their expenses in celebrating Syawal. In 2017, the total number of recipients were 265 students and each of them received RM500.00.



## Go Kitchen

This programme aims to help students who are categorised as Asnaf Fakir and Miskin by giving a food coupon of RM15 per day. The students were allowed to use the coupons at cafeterias registered as Go Kitchen vendor in UNITEN campus.



## Jejak Sahabat Prihatin

This annual programme aims to assist UNITEN staff who earn a household income of RM4,000.00 and below to help them on preparing for Syawal. In 2017, the total number of recipients were 78 who received RM500.00 each and an additional of RM100.00 for each one of their family members to cover some of their expenses in Ramadan and Syawal.





## Financial Assistance for Excellent Students

TAZU provided an incentive to student who obtained excellent results for the past two consecutive semesters for both Putrajaya and KSHAS campuses as follows:

- Degree : CGPA 3.75 and above
- Diploma : CGPA 3.85 and above



## Schooling Assistance for Staff's Children

The objective of this contribution is to assist UNITEN staff who earn a household income of RM4,000.00 and below to cover some of the school expenses of children from 1 to 17 years old only. The total distribution was RM30,4450 given to 223 children.



## UNITEN Professional Huffaz Appreciation 2017

This programme was organised to celebrate the first batch of Tahfiz Engineering students who had successfully graduated from the Tahfiz Certification Programme and Executive Diploma in Corporate Management with Tahfiz.



## Asnaf Pintar Scholarship – Yayasan Peneraju and TAZU

This scholarship is a collaboration between Yayasan Peneraju and TAZU that was officially launched in the *Majlis Memacu Agenda Bumiputera 2017*.





## Charity Golf Tournament 2016

The Charity Golf Tournament was organised by YCU on 15 October 2016 at Impian Golf & Country Club Kajang, Selangor. The event was attended by 49 participants comprising sponsors and invited participants. Among special occasions was the presence of artists from Persatuan Karyawan Malaysia, namely its President, Dato' Freddy Fernandez, Man Bai, Ijoy and Kefli.



## Charity Mega Aerobicthon

Charity Mega Aerobicthon was held at Dewan Seri Sarjana, UNITEN on 9 December 2016 and has received a warm welcome of 146 participants from both staff and students. The programme was officiated by UNITEN Vice-Chancellor, Dato. Prof. Dr. Ir. Kamal Nasharuddin Mustapha.



## Kembara Bicara Inspirasi Kejayaan Negeri Selangor

SMK Cheras Jaya and SMK Tengku Idris Shah were selected by YCU to organise a Kembara Bicara Inspirasi Kejayaan Negeri Selangor programme which involved 500 form 3, 4 and 5 students from each school.





## Yayasan Canselor UNITEN Student Associate (YSA) Activities

YCU has set up Yayasan Canselor UNITEN Student Associate (YSA) on 15 July 2017 as an initiative to mobilise activities with students and communities. YSA is composed of students who received YCU bursary. Among the activities carried out were knowing me knowing you @ YCU, *Bangkit Bersama Lindungi Bersama* and *gotong-royong* at Puchong Muslim cemetery.



Knowing Me Knowing You @ YCU



*Bangkit Bersama Lindungi Bersama*



*Gotong Royong* at Puchong Muslim cemetery



## Computer Handover Ceremony



On 21 July 2017, YCU held a computer handover ceremony at Kapar Energy Ventures Sdn. Bhd. (KEV) to several schools as an initiative to help school students. Among the schools involved were SK Sg. Serdang, SK Tok Muda, SRA Sg. Serdang, SRA Tok Muda, SMK Tengku Idris Shah and SMK (P) Kapar.



## Universiti Tenaga Nasional Endowment Fundraising Dinner “One Night to Remember Charity Dinner”

UNITEN Endowment Fundraising Dinner was jointly organised by the Office Stakeholders Management (OSM), YCU and SCA on 5 December 2017 at Berjaya Times Square Hotel, Kuala Lumpur as the highlight of UNITEN 20th anniversary celebration. A total of RM600,000 funds were raised and the dinner was attended by 300 guests.



## Endowment & Fund Management Conference 2017

Endowment & Fund Management Conference 2017 is the first conference organised by YCU on 5 - 6 December 2017 at Berjaya Times Square Hotel, Kuala Lumpur. The conference was organised to understand how the investment waqf model changes in the post crisis period and identify new approaches in effective investment strategy and style. 115 participants who participated in the conference came from universities, NGOs, charity and foundation bodies.







## Moving Forward

### BOLD2025 STRATEGIC PLAN

*"Building Opportunities, Living Dreams 2025"*  
(BOLD2025)



2017 has been a year of great achievements. With the implementation of BOLD 2025 Strategic Plan, UNITEN has upgraded many physical and digital infrastructures. Almost 7101 students have been exposed to blended learning. Apart from that 2017 has seen the great improvement of UNITEN global university rankings. Moving forward, 2018 and beyond promise another exciting year for UNITEN.

#### Raising research excellence

UNITEN has recruited industry and academic experts in energy related field to raise UNITEN global profile. This synergy will support UNITEN academic especially the young researchers to explore new frontier in energy research and to mentor them to become future energy experts. It hopes to translate into attaining more research funding, intensify research publication and increase citation. The strategic partnership between UNITEN and academic institutions such as Oxford Institute of Energy Studies, and

Institute of Energy Economics Japan, provides another avenue to explore prestige joint academic programmes. As part of BOLD 2025 initiatives, 2018 will see the construction of research-focused laboratories that housed energy research facilities and will incorporate green building elements in its design.

#### Towards a smart and green university

Another interesting development for UNITEN is the deployment of Smart UniverCity initiatives in 2018. It incorporates six strategic pillars that include smart energy, smart mobility, smart education, smart connectivity, and smart generation. In the coming years, we will see UNITEN moving towards cashless community with the introduction of student mobile apps to enhance student learning and living lifestyle. There will be new renewable energy sources to supplement UNITEN energy supply and deployment of energy efficient and smart energy management system in UNITEN. This is timely as UNITEN maturing into a globally recognised energy focused university after 20 years in existence. Hence, it is timely for UNITEN to introduce new courses in 2018 at undergraduate and postgraduate levels. The new College of Energy Business and Economics (CEE) introduces two programmes namely Bachelor of Economics (Hons.) in Energy & Bachelor of Business Economics (Hons.). Meanwhile, College of Graduate Studies (COGS) will launch its newly minted programme in Master of Energy Management to cater for the need to have professionals that expert in energy.



## Conducive learning environment

All higher education institutions are equipping themselves with the implementation of Industrial Revolution 4.0 and MyHE 4.0, Ministry of Higher Education's response to IR.4.0. Among other initiatives under BOLD 2025 is the upgrading of teaching and learning facilities in terms of physical and technology infrastructures that has enhanced the student learning experience. There are more problem-based learning classrooms and classrooms with multimedia facilities being completed. 2018 will also see the completion of an indoor sports arena that houses futsal courts, basketball courts, volleyball courts, netball courts and changing room facility that augers well with the aspiration of churning holistic graduates. These historic transformations were made possible with the strong support from TNB and TNB management. UNITEN acknowledges and expresses its gratitude to TNB for its continuous support in the development of UNITEN as an esteemed higher education institution.

## Achieving financial sustainability

Higher education industries in Malaysia had evolved from few government funded universities in the early 60s to more than 500 higher education institutions in 2017. The mushrooming of private higher institutions had poised stiff competition to UNITEN in attracting secondary school leavers. Thus, UNITEN is strategising its marketing plans towards those from affluent backgrounds and explore new international markets.

Financial sustainability plays an important role in keeping UNITEN in a sustainable manner. The establishment of Business Development Department (BDD) and Office of Stakeholders Management (OSM) allows UNITEN to intensify its effort to increase its income via monetising UNITEN assets for conferences, seminars, team building and enhancing UNITEN stakeholder engagement.

UNITEN has also launched "UNITEN Wakaf Fund" in January 2018 that allows UNITEN community and alumni to contribute as either bequest and/or gift in the form of cash or property. The establishment of YCU, TAZU and Wakaf enables UNITEN to raise fund to assist students who require financial supports. This is significant as we are moving towards a self-sustainable university.

## Celebrating the past & igniting the future

UNITEN celebrated its 20th anniversary in 2017 with the theme "Celebrating the past, igniting the future". UNITEN feels honoured to be able to contribute to the national human capital development with the generation of more than 27,000 graduates in technical and business fields, as well as to the national research & development and innovation aspiration through its research output and experts' advice. UNITEN foresees 2018 as another year of great achievement and raising its national and global recognition.

